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## ABSTRACT

This study reports the characteristics of the graduated science student population as well as of science faculty and post doctoral appointees, and examines trends of certain key factors over a three-year period. Information was analyzed from 2,990 doctoral science departments reporting for 1971 and was machine matched with similar data reported for 1969 and 1970 by the same departments. Results indicated: (1) graduate science enrollments in doctoral departments applying for National Science Foundation traineeships declined 3% from 1970 to 1971; (2) both full- and part-time enrollment dropped during 1970-1971; (3) the most substantial change in the graduate enrollment picture occurred in the number of students enrolled for the first time; (4) graduate enrollment of foreign students was down 2% in 1971 after increasing 5% in 1970; (5) the enrollment dropped off of nearly 2% in full-time graduate science students is attributable to a 10% decline in the number supported by fellowships or traineeships; (6) research assistantships and teaching assistantships declined 4% and 1% respectively; (7) the number of federally supported full-time students declined from 1970-71; and (8) science faculty and postdoctorals associated with doctorate departments were increasing. (Author/MJM)

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# Graduate Student Support and Manpower in Graduate Science Education



# Student Support and Manpower Resources in Graduate Science Education, Fall 1971



# NATIONAL SCIENCE FOUNDATION

WASHINGTON, D.C. 20550

August 13, 1973

## PUBLICATION ANNOUNCEMENT

Trends in graduate science and engineering enrollments for the years 1969-71 are described in a new National Science Foundation (NSF) report.

The report, Graduate Student Support and Manpower Resources in Graduate Science Education (NSF 73-304) provides data on characteristics of graduate science enrollment in terms of types and sources of major financial support for graduate students, level of study, citizenship, and field of science. Data on science faculty and postdoctorals are also analyzed.

Highlights of the report include:

Enrollment of first-time graduate students in science and engineering declined by 8% in 1971, following a 4% drop in 1970;

Overall graduate science and engineering enrollments in doctorate departments declined 3% from 1970 to 1971; and

Running counter to the trend, enrollments during that period increased in the social sciences and psychology.

Data for the reports were obtained from 224 principal doctorate granting institutions in the U.S. and from 2,579 doctorate departments reporting consistently for the years 1969, 1970, and 1971.

This report presents the detailed findings that were the basis for the Science Resources Studies Highlights of May 25, 1972 entitled "First-Year Full-Time Graduate Science Enrollment Continues to Decline" (NSF 72-308). Both the Highlights and the final report were prepared by the Foundations' Division of Science Resources Studies.

Copies of Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1971 (NSF 73-304) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. for \$1.25 per copy domestic postpaid; or \$1.00 at the GPO bookstore.

- END -



## FOREWORD

During the 1960's the Federal Government acted boldly to strengthen the Nation's science and technology through expansion of its scientific manpower resources. As part of this effort, the National Science Foundation established the Graduate Traineeship Program in 1964 which was designed to increase the flow of high-ability graduate science students into the mainstream of the Nation's scientific community. With the current supply of research-oriented Ph.D.'s and other graduates with advanced science and engineering degrees more nearly in balance with the Nation's requirements, this program has been phased out in favor of new methods for improving the scientific educational system itself.

The National Science Foundation is grateful for the cooperation of the graduate deans and department chairmen who supplied the information on which this report is based. The results presented here may in turn be useful to them in serving as planning tools for the management of the scientific resources of institutions of higher education.

March 1973

H. Guyford Stever, Director  
National Science Foundation

## general notes

- Fall 1971 data contained in this report were provided by 2,990 doctorate science departments as part of the National Science Foundation's Graduate Traineeship Program.
- Trend statistics were available for only the 2,579 science departments that provided data each year during the period 1969-71.
- The term "science" as used in this report, is understood to include engineering.
- The phrase "graduate enrollment" refers to the total of full- and part-time graduate science students.
- Details may not add to totals because of rounding.
- The phrases, "1969-70" and "1970-71" refer to the period fall 1969 to fall 1970 and fall 1970 to fall 1971, respectively; the terms are not used in reference to academic years.

## acknowledgments

This report was prepared by Per Nonprofit Institutions Studies Group by William L. Stewart, Head, R&D Ecology of Science Resources Studies, Thomas Helene Ebenfield, Special Analytical Section of the section entitled "Characteristics of Graduate Science Departments, Fall 1971."

Statistics upon which this and other data were compiled were supplied by the Division of Higher Education, Department of Education, which accorded Dr. Douglas S. Chapin, Head, for his valuable assistance.

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ears.

## acknowledgments

This report was prepared by Penny D. Foster of the Universities and Nonprofit Institutions Studies Group. Guidance and review were provided by William L. Stewart, Head, R&D Economic Studies Section of the Division of Science Resources Studies, Thomas J. Mills, Director. Special thanks go to Helene Ebenfield, Special Analytical Section, who contributed to the preparation of the section entitled "Characteristics of Graduate Student Support, Fall 1971."

Statistics upon which this and previous reports were based were supplied by the Division of Higher Education in Science. Special recognition is accorded Dr. Douglas S. Chapin, Head, Fellowships and Traineeships Section, for his valuable assistance.

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## HIGHLIGHTS

- Graduate science enrollment in doctorate departments applying for National Science Foundation traineeships declined 3 percent from 1970 to 1971. This decline prevailed in all areas of science except psychology and the social sciences (page 1).
- Both full- and part-time enrollment dropped from 1970 to 1971. The 8-percent decline in part-time enrollment represented the second successive year of reductions (page 1).
- The most substantial change in the graduate enrollment picture occurred in the number of students enrolled for the first time, traditionally a measure used for projecting the future scientific manpower pool. The number of students in this group declined by 8 percent in 1971, following a 4-percent drop in 1970 (page 1).
- For the first time since this statistical series was inaugurated, graduate enrollment of foreign students was down 2 percent in 1971 after increasing 5 percent the previous year. Foreign graduate enrollment in the earlier study had gained 10 percent from 1967 to 1968 and another 11 percent by 1969 (page 2).
- The enrollment dropoff of nearly 10 percent of nearly all students is attributable primarily to a decline in support from fellowships or traineeships supported by fellowships or traineeships utilized by 17 percent fewer first-time students (page 4).
- Research assistantships and teaching assistantships declined 1 percent, respectively, while student organizations registered a 9-percent increase (page 5).
- The number of federally supported students declined to 1971 at twice the rate of declining support from all outside sources (page 6).
- First-year full-time enrollment in science and engineering declined 8 percent from 1970 to 1971, reflecting the closing of developing graduate schools and the decline in support (page 9).
- At a time when graduate enrollment and postdoctorals associated with research and development declined 11 percent (page 18).

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enrollment picture occurred first time, traditionally a manpower pool. The number percent in 1971, following a 4-

was inaugurated, graduate enrollment in 1971 after increasing enrollment in the earlier 1968 and another 11 percent

- The enrollment dropoff of nearly 2 percent in full-time graduate science students is attributable primarily to a 10-percent decline in the number supported by fellowships or traineeships. This method of support was utilized by 17 percent fewer first-year students in 1971 than in 1970 (page 4).
- Research assistantships and teaching assistantships declined 4 percent and 1 percent, respectively, while students relying on "other" support mechanisms registered a 9-percent increase (page 4).
- The number of federally supported full-time students declined from 1970 to 1971 at twice the rate of decline, or 10 percent, of the students receiving support from all outside sources (page 6).
- First-year full-time enrollment in the "first 20" institutions declined by 8 percent from 1970 to 1971, nearly three times the rate of decline in developing graduate schools and twice the rate in intermediate institutions (page 9).
- At a time when graduate enrollments were declining, both science faculty and postdoctorals associated with doctorate departments were increasing (page 18).

# INTRODUCTION

Since 1965 graduate science departments in doctorate-granting institutions, in applying to the NSF Graduate Traineeship Program, have supplied the National Science Foundation with information on the types and sources of support utilized by graduate students. Four reports based on these statistics have been published to date, and this report presents information on the patterns of graduate student support as of fall 1971. A new survey for fall 1972 that is currently being processed will include a larger number of science departments — over 4,500 — and will provide data for the first time from all medical schools offering the doctorate.

This is one of the series of Foundation studies analyzing the utilization of the Nation's resources for science in accordance with its legislative mandate. This study reports the characteristics of the graduate science student population, as well as of science faculty and postdoctoral appointees, and examines trends in certain key factors over a 3-year period.

Information was analyzed from 2,990 doctorate science departments reporting for 1971 and was machine matched with similar data reported for 1969 and 1970 by the same departments. Analyses of trends were therefore based on data from the 2,579 doctorate science departments which had reported for the entire period 1969-71.

Data on graduate enrollments presented here are considered highly representative of total U.S. graduate enrollment in the sciences and engineering as reported by the Office of Education. The institutions covered in this study awarded over 95 percent of the science doctorates conferred by all U.S. institutions in 1971, as described in appendix table A-1. Comparable science enrollment data were not yet available from the Office of Education at the time of this report. In 1970 however, institutions applying for NSF traineeships enrolled 80 percent of the science students in graduate degree-credit programs, as shown in appendix table A-2.

The report examines four principal characteristics of graduate students enrolled in doctorate science departments: Enrollment status (full- or part-time); distribution among fields of science; level of study (first year or beyond); and citizenship. Full-time students are further examined by types and sources of their major support.

# Section 1. SUPPORT OF GRADUATE STUDENTS IN SCIEN

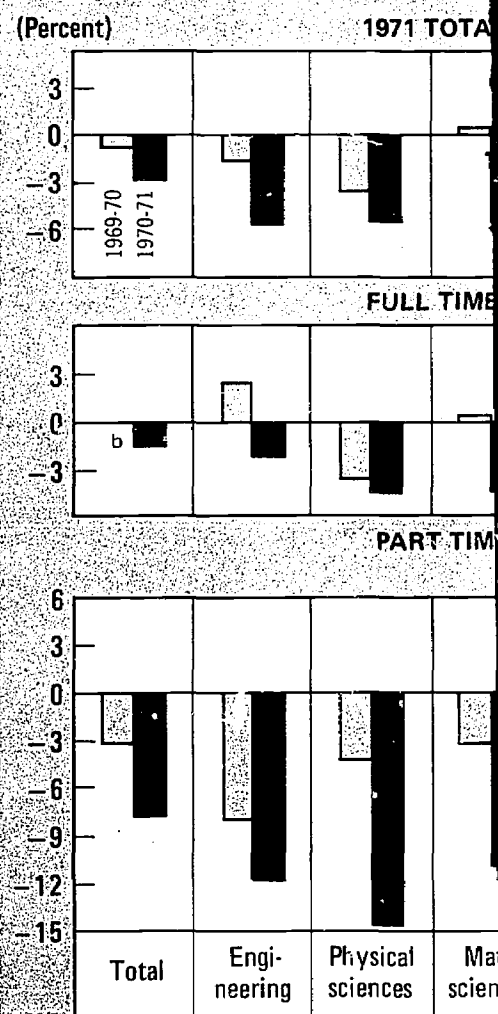
## General Enrollment Patterns

Graduate science enrollment declined for the second consecutive year, among doctorate departments reporting consistently during 1969-71, falling to 165,300 in 1971, 3 percent below the 1970 figure. Part-time students accounted for three-fifths of the total reduction in graduate enrollment between 1970 and 1971. First-year enrollments were down a total of 12 percent during the period 1969-71—4 percent in 1969 and 8 percent in 1970. Beyond first-year enrollment, on the other hand, remained fairly stable throughout the 3-year period, declining less than 1 percent in 1971.

The most frequent explanation given by university officials attributes this downward trend in graduate science enrollments to the financial squeeze that was reported to be particularly acute in 1971 and the years immediately preceding. Several of the leading universities, for reasons of economy, began consciously reducing, or at least restricting, enrollment. Also cited as reasons for the downturn were a general feeling of disenchantment among students towards the sciences and technology and the rising unemployment rate among scientists and engineers.

Only psychology and the social sciences avoided reduced graduate enrollment levels in 1971. The remaining fields experienced declines ranging from 1 percent in the life sciences to nearly 6 percent in the mathematical sciences. In 1970 the only decreases noted occurred in engineering and the physical sciences.

Change in graduate enrollment by area



<sup>a</sup>Based on 2,579 doctorate departments for 1971.

<sup>b</sup>Less than 0.05 percent change.

SOURCE: National Science Foundation (appended table).



# PORT OF GRADUATE STUDENTS IN SCIENCE, 1969-71

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at declined for the second consecutive year, reporting consistently during 1969-71, falling below the 1970 figure. Part-time students total reduction in graduate enrollment between enrollments were down a total of 12 percent in 1969 and 8 percent in 1970. On the other hand, remained fairly stable declining less than 1 percent in 1971.

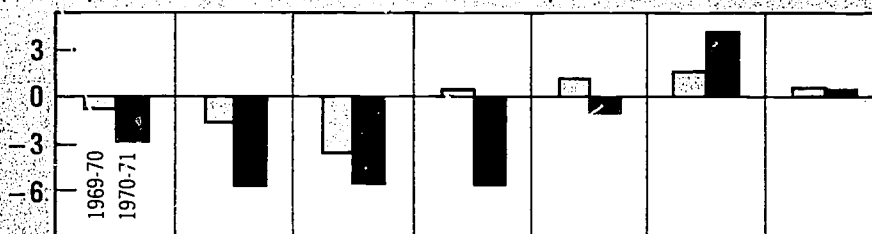
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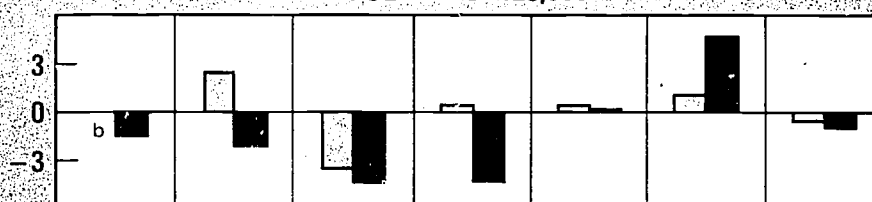
Change in graduate enrollment by area of science, 1969-71<sup>a</sup>

(Percent)

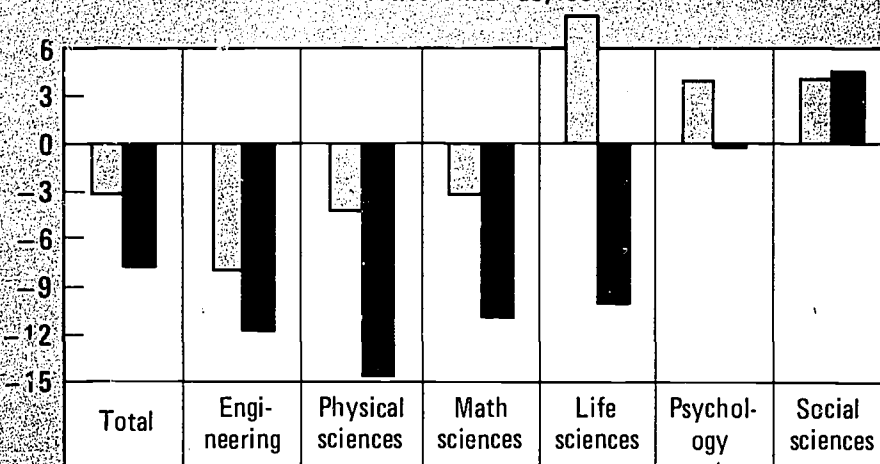
1971 TOTAL: 165,300



FULL TIME: 129,900



PART TIME: 35,400



<sup>a</sup>Based on 2,579 doctorate departments for 1969, 1970, and 1971.

<sup>b</sup>Less than 0.05 percent change.

SOURCE: National Science Foundation (appendix table C-15).

Although an earlier study<sup>1</sup> showed steady increases in the number of foreign graduate students enrolled in doctorate departments at U.S. institutions, 10 percent from 1967 to 1968 and 11 percent from 1968 to 1969, the 4:1 ratio of U.S. citizen graduate students to foreign students has remained stable for the period 1969-71.

Private institutions accounted for the major portion of the cutback in graduate enrollment in science programs during 1971. Again, the decline in part-time students shows up as the primary factor influencing total enrollment figures in both public and private institutions.

## Support of Full-Time Graduate Students

After maintaining a generally stable position through 1970, full-time enrollment began to show the effect of reduced support for fellowship and

<sup>1</sup>National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1970* (NSF 71-27) (Washington, D.C. 20402: Supt. of Documents, U. S. Government Printing Office), p. 72.

Percent change in graduate enrollment, by control of institution, 1970 to 1971<sup>a</sup>

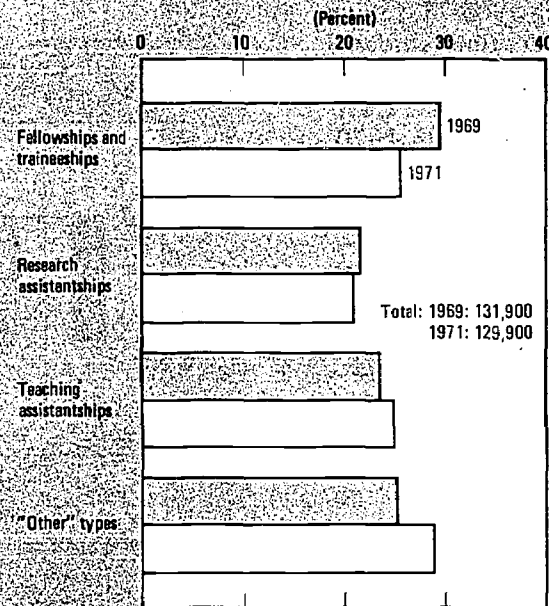
Enrollment status	Public institutions	Private institutions
Graduate enrollment in the sciences and engineering . . . . .	- 1.2	- 6.1
Full-time enrollment . . . . .	- .2	- 2.4
U. S. citizens . . . . .	.3	- 2.5
Foreign students . . . . .	- 1.9	- 2.0
First-year students . . . . .	- 4.3	- 3.0
Beyond-first-year students . . . . .	1.9	- 2.1
Part-time enrollment . . . . .	- 6.0	-13.6

<sup>a</sup>Based on 2,887 matched doctorate departments reporting for both 1970 and 1971. Data for three consecutive years were not available.

traineeship programs and the leveling off of the rate of growth of academic research. As funds for such programs became tighter, more students were forced to seek support from other sources. Perhaps because of prevailing economic conditions and the effect of campus unrest on traditional sources of support, the only increase in financial support turned out to be from family assistance, loans, and other forms of "self-support."

The proportion of students holding fellowships and traineeships has declined; by 1971 these students represented 25 percent of the total, in contrast with the 29-percent share they represented in 1969. Both teaching and research assistantships have maintained about their same share of the total number of full-time students

Types of major support as percent of full-time enrollment, 1969 and 1971<sup>a</sup>



<sup>a</sup>Based on 2,679 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation appendix table C-17A.

Percent

Types of

Total .

Fellowship  
Research a  
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<sup>a</sup>Based on 2  
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Percent change in full-time graduate enrollment, by type of support, 1969-71<sup>a</sup>

Types of major support	Percent change	
	1969-70	1970-71
Total . . . . .	(b)	-1.5
Fellowships-traineeships . .	-6.5	-9.5
Research assistantships . . .	(b)	-4.4
Teaching assistantships . . .	4.5	-.9
Other types, primarily self-support . . . . .	3.3	8.8

<sup>a</sup>Based on 2,579 doctorate science departments reporting for each of the years 1969, 1970, and 1971.

<sup>b</sup>Less than 0.05 percent change.

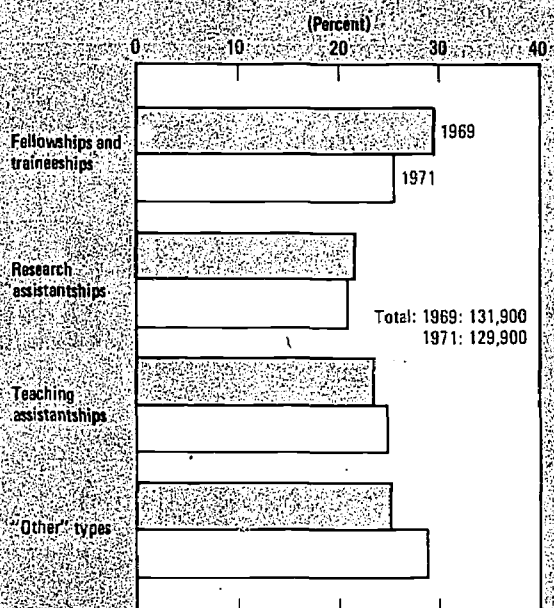
in this period, while those depending on "other" mechanisms represented 29 percent in 1971, up from 25 percent in 1969.

## LEVEL OF STUDY

The sharp decrease in availability of fellowships or traineeships to first-year students accounted for the bulk of the decline in full-time graduate enrollment in 1971. Both the number of research and teaching assistants newly enrolled in graduate school exhibited a downward trend, and only those students attending at their own expense showed consistent but minor gains in enrollment.

The 3-percent decline in research assistantships available to first-year students for the period 1969-71 reflects the slowdown in the rate of growth in R&D expenditures from all sources experienced by universities and colleges beginning with academic year 1969.<sup>2</sup> The 5-percent

Types of major support as percent of full-time enrollment, 1969 and 1971<sup>a</sup>



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix table C-17A).

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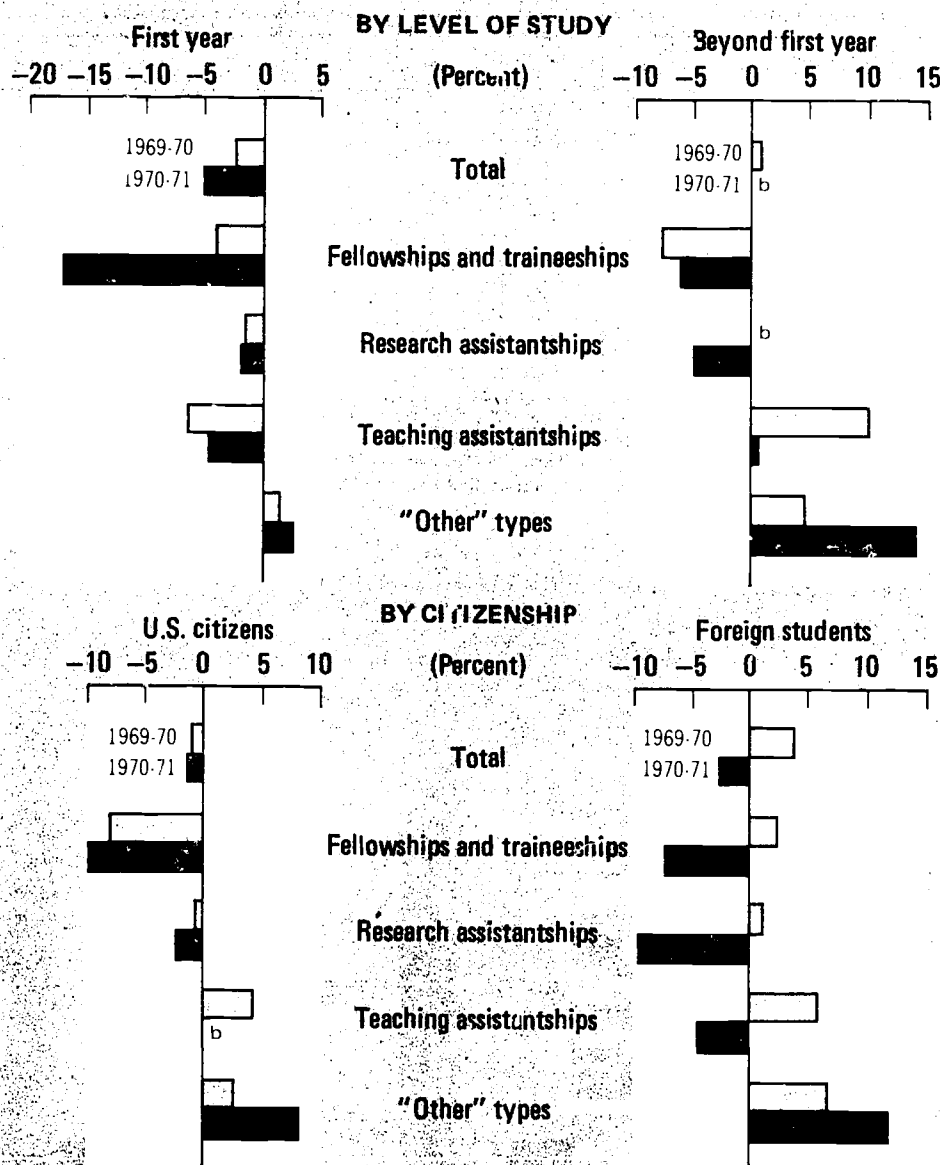
control of

Private institutions
- 6.1
- 2.4
- 2.5
- 2.0
- 3.0
- 2.1
-13.6

both 1970

<sup>2</sup>National Science Foundation, *Resources for Scientific Activities at Universities and Colleges, 1971* (NSF 72-315) (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office), p. 41.

**Changes in the number of full-time graduate students, by type of major support, 1969-71<sup>a</sup>**



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

<sup>b</sup>Less than 0.5 percent change.

SOURCE: National Science Foundation (appendix tables C-17A and C-18A).

per year rate of increase in R&D considerably below the 13-percent annual rate for the four years, 1954-68. The main factor was that portion supplied by the F-33 percent per year during 1968-71 during 1964-68.

A somewhat different picture rolled beyond their first year of traineeships were reduced, the rate 1970 to 1971 than that experien

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Among graduate science students has remained constant at about 4:1 enrollment reported for 1971 affected dropping at a rate of 2.4 percent of This is the first decline in numbers of since the Foundation began compiling with the latest data collected by the This report showed a reduction by graduate student population between The proportion of graduates to the percent below the 1970 figure, the

The rate of reduction in foreign was most noticeable in the number followed in order by fellows-trainees and U.S. citizen enrollment for that period of fellowships and traineeships.

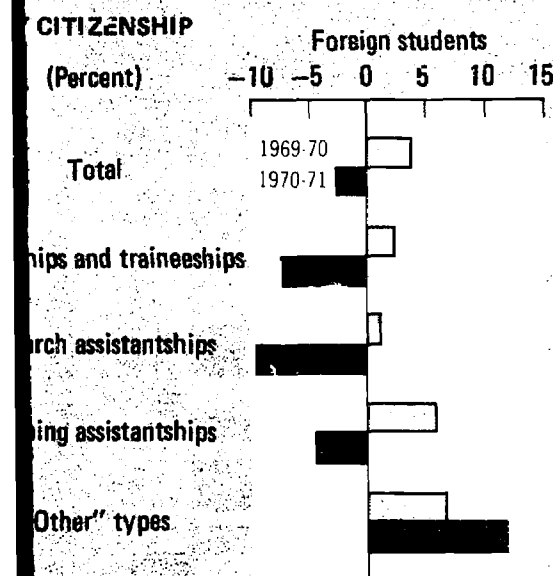
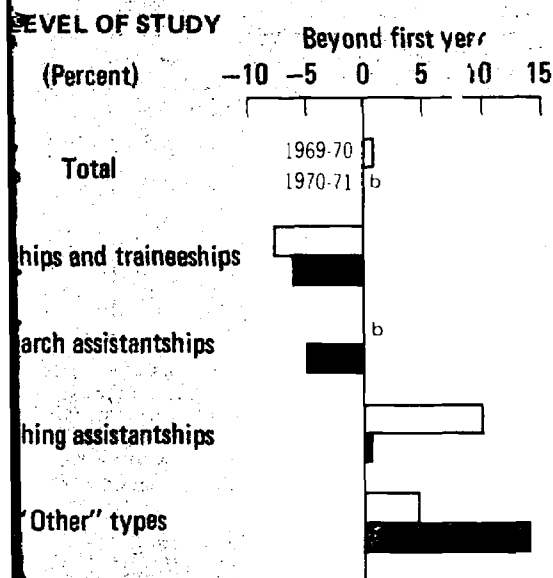
The continuing drop in enrollment 1971 runs counter to population trends the prime group from which graduate Census statistics, the total population from 1967 to 1971 although a slow

Year (as of July 1)	Age (in the)
1967	16
1968	16
1969	17
1970	18
1971	19

<sup>3</sup>Institute of International Education, *Open Door*



## Full-time graduate students, by type



reporting for 1969, 1970, and 1971.

appendix tables C-17A and C-18A).

per year rate of increase in R&D expenditures during 1968-70 was considerably below the 13-percent annual rate of growth during the previous four years, 1964-68. The main factor responsible for this lower rate of growth was that portion supplied by the Federal Government, which increased only 3 percent per year during 1968-70, compared with 14 percent per year during 1964-68.

A somewhat different picture emerges for those full-time students enrolled beyond their first year of graduate work. While fellowships and traineeships were reduced, the rate of decline was considerably less from 1970 to 1971 than that experienced by their first-year counterparts.

## CITIZENSHIP

Among graduate science students the ratio of U.S. citizens to foreigners has remained constant at about 4:1 for the past several years. The decline in enrollment reported for 1971 affected both groups, with foreign enrollment dropping at a rate of 2.4 percent compared to 1.3 percent for U.S. citizens. This is the first decline in numbers of full-time foreign graduate students noted since the Foundation began compiling these data, and this decline is consistent with the latest data collected by the Institute of International Education.<sup>3</sup> This report showed a reduction by some 4,500 students in the total foreign graduate student population between 1970 and 1971, from 65,859 to 59,333. The proportion of graduates to the total number of foreign students was 4 percent below the 1970 figure, the lowest in 8 years.

The rate of reduction in foreign graduate enrollment from 1970 to 1971 was most noticeable in the number of holders of research assistantships, followed in order by fellows-trainees and teaching assistants. The reduction in U.S. citizen enrollment for that period was felt most strongly by the holders of fellowships and traineeships.

The continuing drop in enrollment of U.S. citizens in both 1970 and 1971 runs counter to population trends for the 22-to-27-years age group, the prime group from which graduate students are derived. According to Census statistics, the total population in this age group has increased yearly from 1967 to 1971 although a slowdown was noted in 1970.

Year (as of July 1)	Age 22-27 (In thousands)	Annual percent change
1967 . . . . .	16,106	3.4
1968 . . . . .	16,592	3.0
1969 . . . . .	17,918	8.0
1970 . . . . .	18,631	4.0
1971 . . . . .	19,308	3.6

<sup>3</sup>Institute of International Education, *Open Doors*, 1972, (New York: IIE Publications Division, 1973).

## TYPES OF MAJOR SUPPORT

Only the life sciences and psychology enrolled more students in 1971 than in 1970. In the life sciences, the increase was barely measurable, but it resulted primarily from an influx of students dependent on "other" mechanisms. In psychology, these students had a strong influence also, as they did in every other area of science. The physical sciences suffered the greatest relative decrease in students holding fellowships or traineeships, while the mathematical sciences lost the most research assistants.

The sharp downturn in first-year full-time graduate enrollment from 1970 to 1971 took place in virtually every area of science. As shown in the accompanying chart, fellows-trainees bore the brunt of this decline, especially in the physical and mathematical sciences. Although the number of research and teaching assistants also tapered off, the effect was not as great as that felt by fellows-trainees. The number of first-year students depending on other mechanisms of support actually increased in 1971, the only form of support to do so, with every area of science except engineering and the social sciences showing substantial gains.

Percent change in full-time major support and area

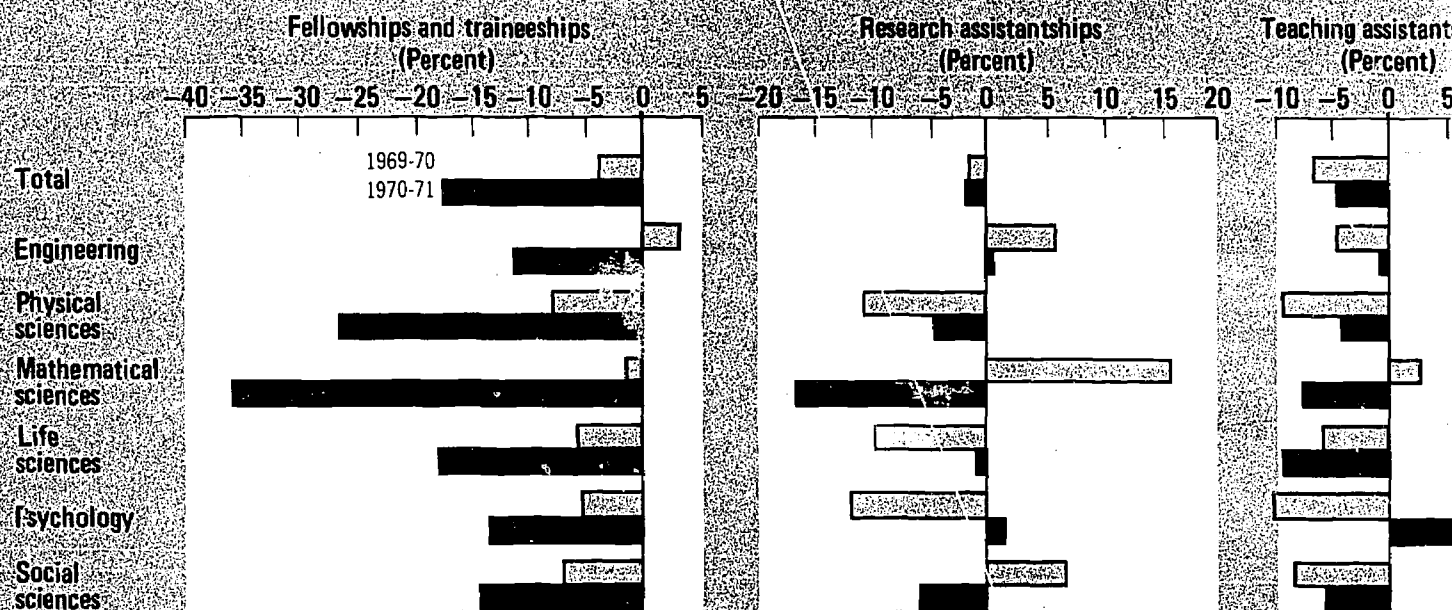
Types of major support	Total	Engineering
Total . . . . .	- 1.5	- 2.0
Fellowships and traineeships . . . . .	- 9.5	-10.6
Research assistantships . . . . .	- 4.4	- 4.2
Teaching assistantships . . . . .	- .9	- .8
"Other" types, primarily self-support .	8.8	6.0

<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.  
<sup>b</sup>NSF traineeships were not awarded in clinical medical departments.

<sup>c</sup>History and philosophy departments were not eligible.

SOURCE: National Science Foundation (appendix table C-18A through C-18G).

Change in the number of first-year full-time graduate students, by type of major support and area of science, 1969-70 and 1970-71



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix tables C-18A through C-18G).

## OF MAJOR SUPPORT

psychology enrolled more students in 1971 than in 1970, the increase was barely measurable, but it was significant. Students dependent on "other" mechanisms of support had a strong influence also, as they did in 1970. The physical sciences suffered the greatest decline in fellowships or traineeships, while the social sciences had the most research assistants.

First-year full-time graduate enrollment from 1969 to 1971 was actually every area of science. As shown in the table, the decline bore the brunt of this decline, especially in the physical sciences. Although the number of students also tapered off, the effect was not as great. The number of first-year students depending on fellowships or traineeships actually increased in 1971, the only form of support of science except engineering and the social sciences.

Percent change in full-time graduate enrollment, by type of major support and area of science, 1970 to 1971<sup>a</sup>

Types of major support	Total	Engineering	Physical sciences	Mathematical sciences	Life sciences <sup>b</sup>	Psychology	Social sciences <sup>c</sup>
Total . . . . .	- 1.5	- 2.0	- 4.3	- 4.3	0.1	4.8	- 0.9
Fellowships and traineeships . . . . .	- 9.5	-10.6	-15.6	-13.7	- 8.5	- 6.0	- 6.0
Research assistantships . . . . .	- 4.4	- 4.2	- 6.3	-16.8	- 2.0	1.8	- 1.5
Teaching assistantships . . . . .	- .9	- .8	- 1.2	- 3.5	.2	3.9	- .9
"Other" types, primarily self-support . . . . .	8.8	6.0	11.9	7.7	15.3	23.2	3.4

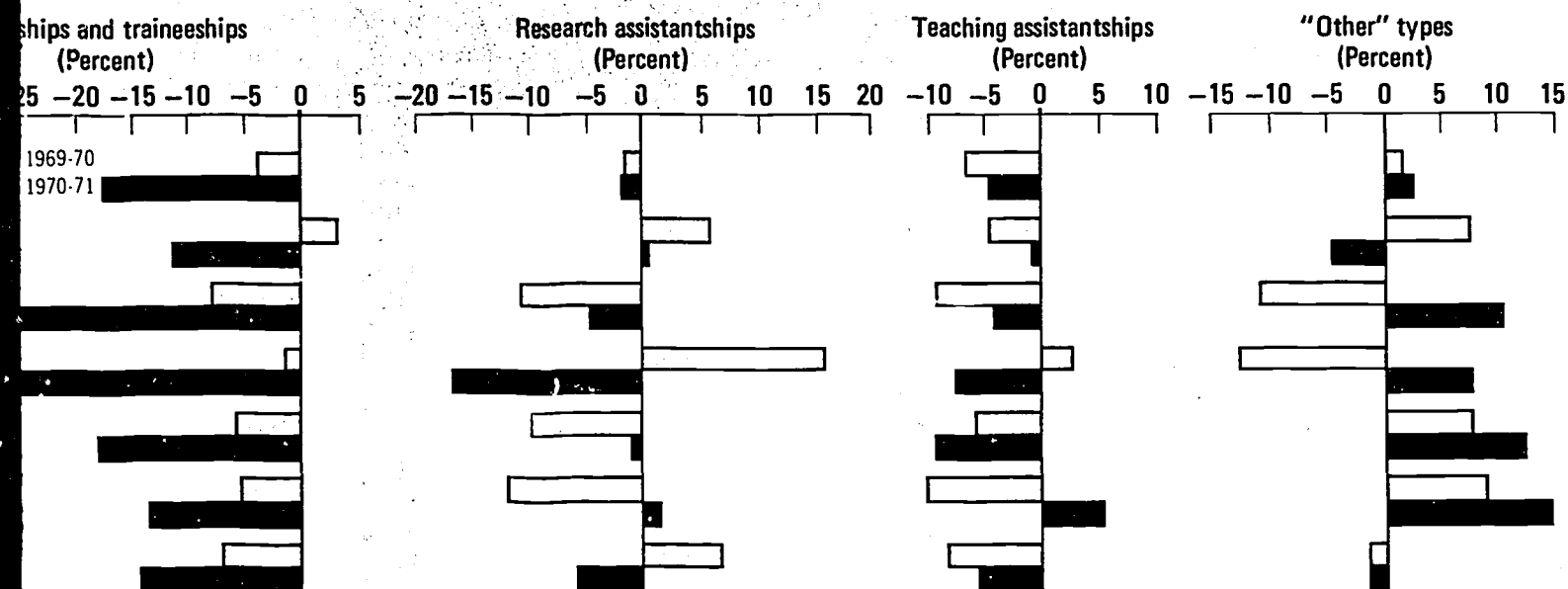
<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

<sup>b</sup>NSF traineeships were not awarded in clinical medical fields.

<sup>c</sup>History and philosophy departments were not eligible for NSF traineeships.

SOURCE: National Science Foundation (appendix tables C-17 A thru C-17 G).

## First-year full-time graduate students, by type of major support and area of science, 1969-71<sup>a</sup>



nts reporting for 1969, 1970, and 1971.  
on (appendix tables C-18A through C-18G).

Full-time students beyond their first year of study increased only slightly from 1970 to 1971. Fellows-trainees in this category were reduced in every area of science. Research assistants followed the same pattern except for a slight increase in advanced students enrolled in psychology and the social sciences.

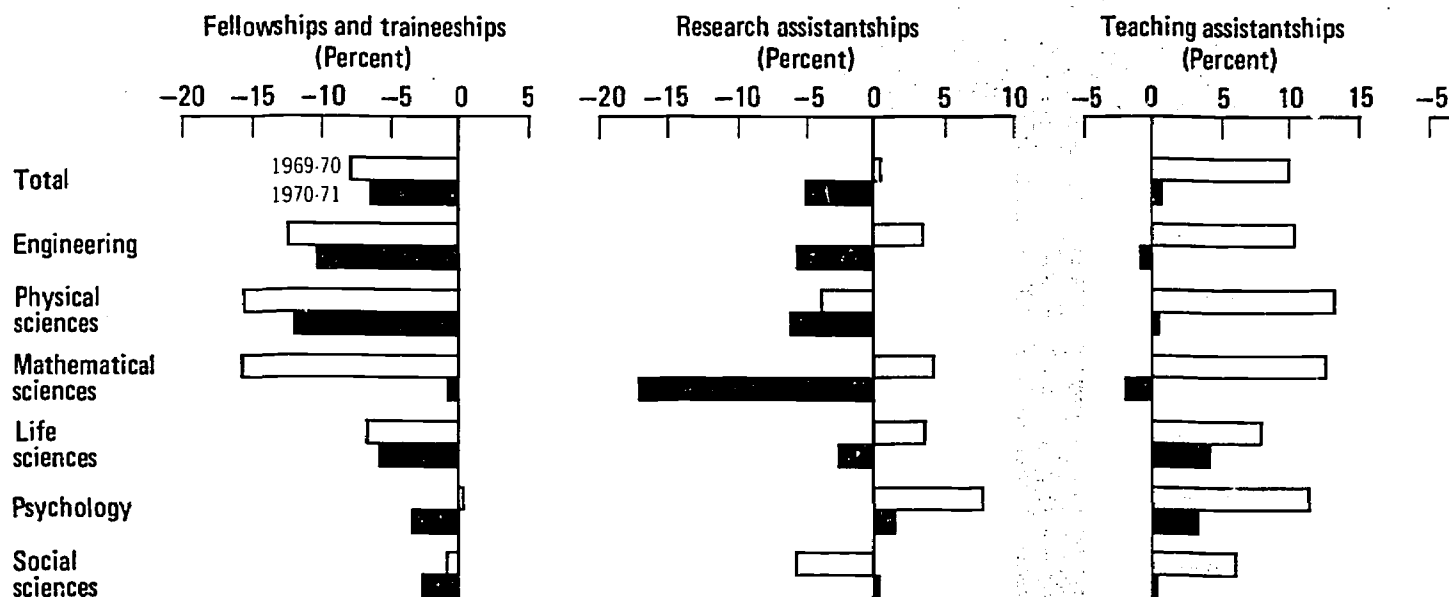
The lack of availability of teaching assistantships for students beyond their first year of study became apparent for the first time in 1971. Substantial gains in teaching assistants had been reported in every area of science in prior years.

The advanced students relying on "other" mechanisms of support increased sharply in 1971, following the pattern set in 1970. Every area of science reported increased enrollment of these students.

In the physical and mathematical sciences, 5 percent fewer U. S. citizens were enrolled in 1971 than in 1970, while in engineering and the social sciences, 1 percent fewer were enrolled that year. The life sciences remained stable, while psychology gained 5 percent, as it did in foreign enrollment.

Engineering, the field that has consistently attracted the largest proportion of foreign students, lost 3 percent of such enrollees in 1971 after showing an increase of 5 percent in 1970. The same reversal in pattern occurred in the social sciences—a 3-percent decline in 1971 followed a 7-percent increase the year before. Only in psychology was there any significant increase in foreign enrollment in 1971—5 percent.

Change in the number of beyond-first-year full-time graduate students, by type of major support and area of science



\*Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix tables C-18A through C-18G).



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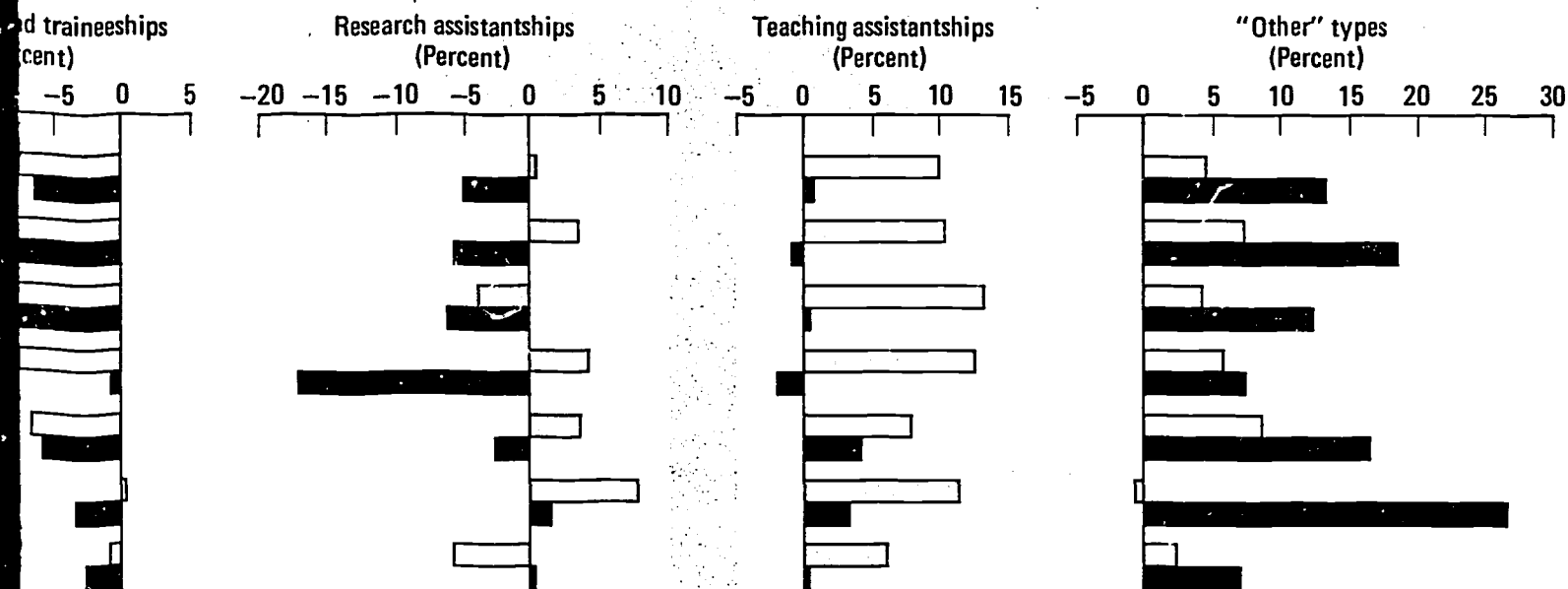
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The number of U. S. citizens holding fel-  
lowships or traineeships edged downward in every  
area of science at a faster rate from 1970 to 1971  
than was evident from 1969 to 1970, with the  
physical and mathematical sciences reaching lows  
of 17 percent and 15 percent, respectively.

Although only two areas of science showed  
declines in the number of U. S. citizens holding  
research assistantships from 1970 to 1971—the  
physical and mathematical sciences—these were  
of sufficient magnitude to outweigh the small  
increases in the remaining fields of science. How-  
ever, enrollment of foreign research assistants de-  
creased in all areas except psychology, following  
the pattern set by foreign fellows and trainees.

beyond-first-year full-time graduate students, by type of major support and area of science, 1969-71<sup>a</sup>



nts reporting for 1969, 1970, and 1971.  
ion (appendix tables C-18A through C-18G).

The teaching assistant holding U. S. citizenship fared only slightly better than his research assistant counterpart when areas of science were compared. Both forms of support registered reductions in the physical and mathematical sciences, but rates of decline were slightly less for teaching assistants in 1971. The number of foreign teaching assistants exhibited enrollment patterns similar to foreign fellows-trainees and research assistants — after increasing yearly, the trend was reversed from 1970 to 1971.

Both U. S. and foreign graduate students supported by "other" mechanisms increased in numbers between 1970 and 1971, in sharp contrast to the declining number receiving support through the mechanisms described above. In every area of science, the number of U. S. citizens increased to some degree; foreign students increased at even higher rates. Stiffer competition for financial aid has reversed the trend that was evident in prior years when foreign students had little or no difficulty in finding help from government, institutional, and industrial sources. By 1971 these sources were in dwindling supply, forcing the foreign student to rely more on his own resources in order to continue his graduate work.

### SOURCES OF MAJOR SUPPORT

In the preceding section, discussion centered on the major mechanisms of support utilized by full-time graduate students in the sciences and engineering. These mechanisms of support will now be related to the major sources of such support during the period 1969-71. The doctorate departments supplying data for three consecutive years reported the following changes in support patterns of full-time students.

Percent change in full-time graduate enrollment, by source of major support, 1969-71<sup>a</sup>

Sources of major support	Percent change	
	1969-70	1970-71
Total .....	(b)	- 1.5
Sources of outside support, total: .....	- 1.0	- 5.3
U. S. Government .....	- 5.6	- 9.6
Institutional support <sup>c</sup> ..	3.1	- 1.3
Other outside support <sup>d</sup> ..	1.7	- 5.0
Self-support .....	4.3	14.5

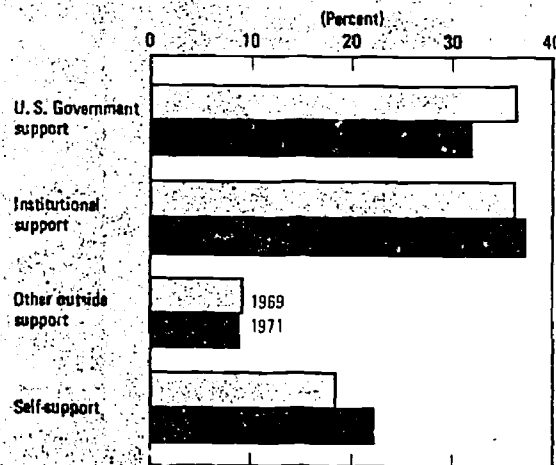
<sup>a</sup>Based on 2,579 doctorate departments reporting for each of the years 1969, 1970, and 1971.

<sup>b</sup>Less than 0.05 percent change.

<sup>c</sup>Includes institutions, State, and local governments.

<sup>d</sup>Includes private foundations, industry, and all other U. S. and foreign sources.

Sources of major support as percent of full-time enrollment, 1969 and 1971<sup>a</sup>



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix table C-17A).

All full-time graduate students during this period, with the exception of those in the natural sciences, supported by self-support.

The percentage of full-time graduate students receiving U. S. Government support in 1971 was 32 percent, down from 35 percent in 1969. While institutional support in 1971 was 33 percent, down from 35 percent in 1969, the total percentage of self-support in 1971 was 22 percent, up from 18 percent in 1969.

Students in the natural sciences and engineering were reduced by 1 percent in 1971 from 1969. The affected groups in research and the natural sciences and the engineering trend may be planned in institution effect.<sup>4</sup> The impact of the support were impact on for only students in

Diminished students in 1971 by "other" support. Despite the impact of such support

<sup>4</sup>National Science Foundation and Colleges (1973-300) (Washington, D. C.: Government Printing Office, 1973).

Percent change in full-time graduate enrollment, by source of major support, 1969-71<sup>a</sup>

Sources of major support	Percent change	
	1969-70	1970-71
Total .....	(b)	- 1.5
Sources of outside support, total: .....	- 1.0	- 5.3
U. S. Government .....	- 5.6	- 9.6
Institutional support <sup>c</sup> ..	3.1	- 1.3
Other <sup>d</sup> outside support ..	1.7	- 5.0
Self-support .....	4.3	14.5

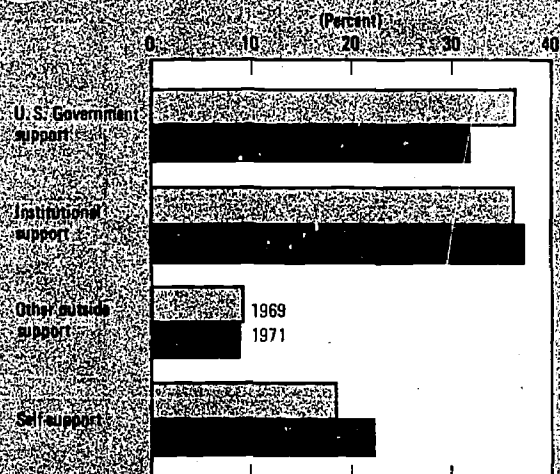
<sup>a</sup>Based on 2,579 doctorate departments reporting for each of the years 1969, 1970, and 1971.

<sup>b</sup>Less than 0.05 percent change.

<sup>c</sup>Includes institutions, State, and local governments.

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Sources of major support as percent of full-time enrollment, 1969 and 1971<sup>a</sup>



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.  
SOURCE: National Science Foundation, *Federal Support to Universities and Colleges and Selected Nonprofit Institutions, FY 1971* (NSF 73-300) (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office).

All forms of traditional support available to graduate students were curtailed in the 1970-71 period, with Government-supported students being affected to the greatest extent. Acceleration in the rate of decline in the number of federally supported students contrasted sharply with the upswing in self-supported students.

The proportion of graduate students receiving U. S. Government aid in 1971 dropped 5 percent from the proportion reported in 1969. While institutional and other forms of outside support maintained their same relative share of the total from 1969 to 1971, the proportion of self-supported students increased by 4 percent.

Students receiving fellowships and traineeships under U. S. Government auspices were reduced by 10 percent from 1969 to 1970 and by another 13 percent in 1971, the most seriously affected group of all fellows-trainees. The decline in research assistantships in 1971 was based on reduced support by both the Federal Government and the institutions themselves. However, this trend may be reversed in the coming years as the planned increases in Federal R&D obligations to institutions of higher education begins to take effect.<sup>4</sup> Teaching assistants receiving Federal support were on the rise in both periods, but their impact on the total is slight, having accounted for only 1 percent of all federally supported students in 1971.

Diminishing outside support to graduate students was partially offset in both 1970 and 1971 by an influx of students depending on "other" mechanisms — primarily self-support. Despite increased tuition and fees, the number of such students rose in both years.

<sup>4</sup>National Science Foundation, *Federal Support to Universities and Colleges and Selected Nonprofit Institutions, FY 1971* (NSF 73-300) (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office).

In all areas of science, reduced enrollments of federally supported students were the norm. The relative impact on the mathematical sciences students was greater than on any of the other federally supported students. Engineering and the physical and life sciences accounted for 71 percent of the students receiving Government support in 1971; together, these fields experienced a 10-percent decrease in graduate students supported through Federal programs between 1970 and 1971.

By 1971, enrollment of institutionally supported students was down in all but two areas — the life sciences and psychology. In previous years, these students were on the increase in every field of science except social. These same two fields were the only ones to increase their enrollment of students supported by all other outside sources from 1970 to 1971.

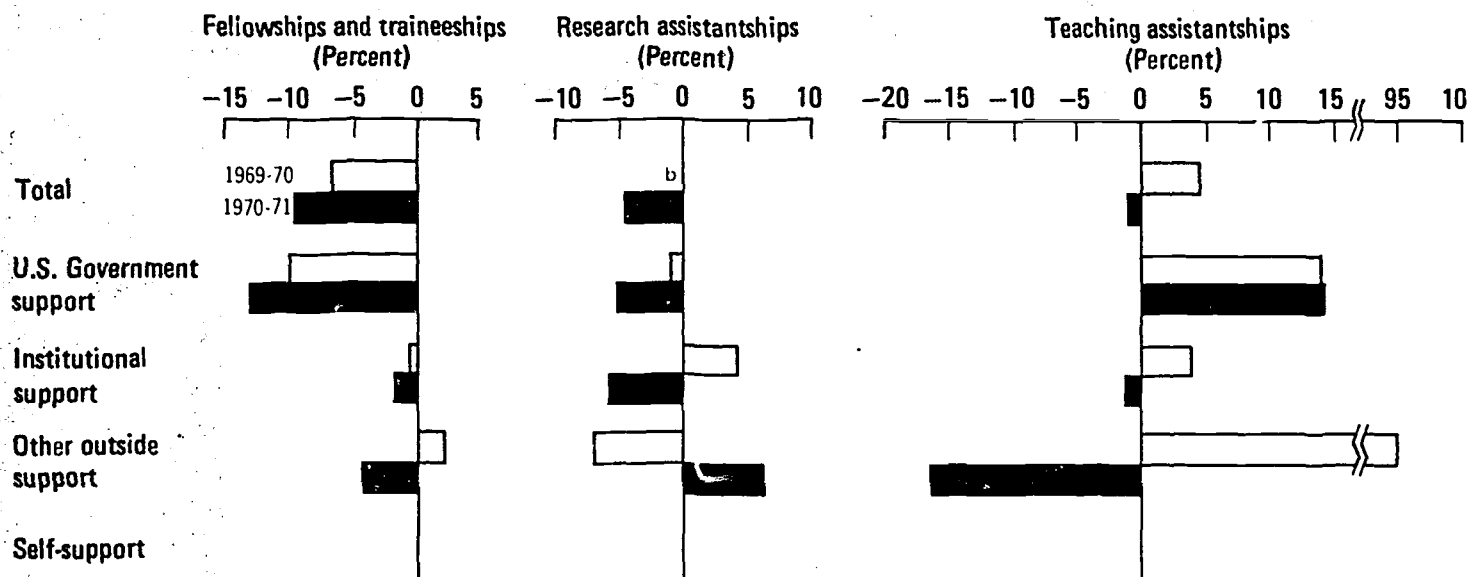
In contrast with the declining rates of enrollment of all students depending on outside support, self-supported students gained appreciably from 1970 to 1971, especially in the mathematical sciences and psychology.

Percent change in full-time graduate students by source of major support

Sources of major support	Total	Engineering
Total . . . . .	- 1.5	- 2.0
U. S. Government . . . . .	- 9.6	- 9.6
Institutional support . . . . .	- 1.3	- 2.5
Other outside support . . . . .	- 5.0	- 7.0
Self-support . . . . .	14.5	17.2

<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969

Change in the number of full-time graduate students, by type and source of major support, 1969-71<sup>a</sup>



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

<sup>b</sup>Less than 0.05 percent change.

SOURCE: National Science Foundation (appendix table C-17A).

reduced enrollments of federally supported students had a negative impact on the mathematical sciences students. The other federally supported students, engineering and life sciences accounted for 71 percent of the total support in 1971; together, these fields accounted for 71 percent of the increase in graduate students supported through 1970 and 1971.

The enrollment of institutionally supported students was down in the life sciences and psychology. In previous years, there was an increase in every field of science except social sciences. The only ones to increase their enrollment of students were those supported from outside sources from 1970 to 1971.

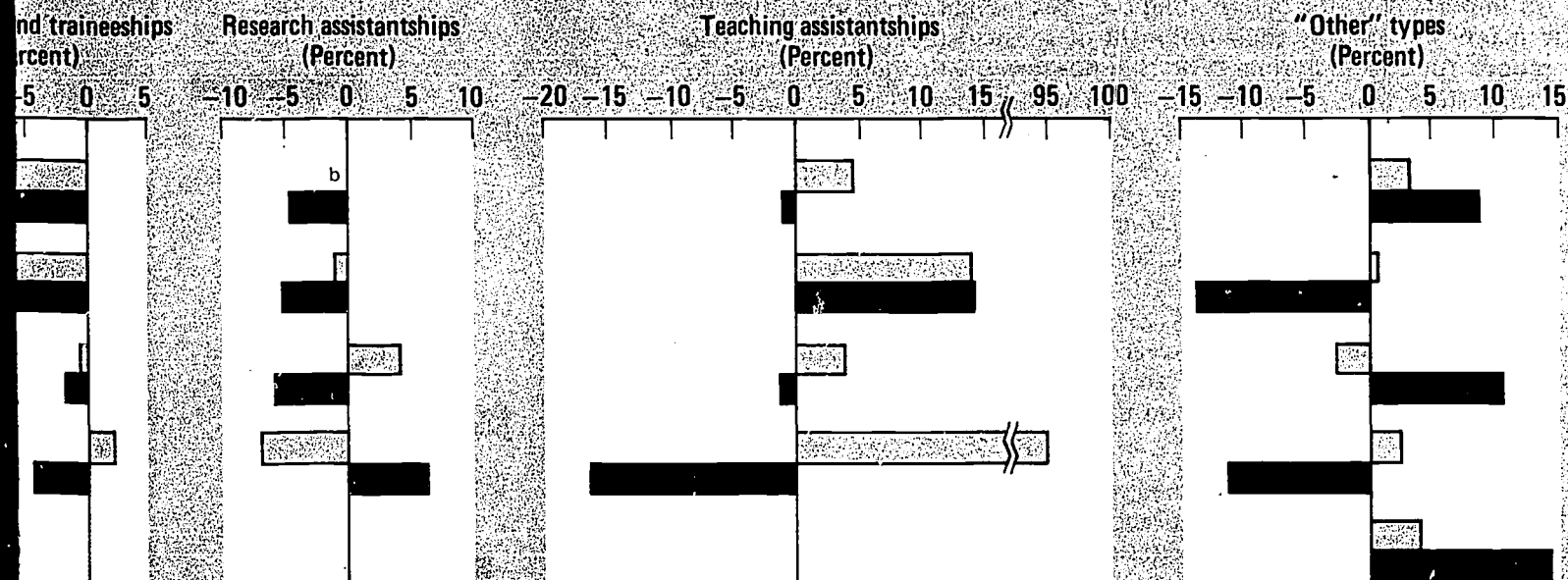
The enrollment rates of enrollment of all students dependent on outside sources gained appreciably from 1970 to 1971. The mathematical sciences and psychology.

Percent change in full-time graduate enrollment  
by source of major support and area of science, 1970 to 1971<sup>a</sup>

Sources of major support	Total	Engineering	Physical sciences	Mathematical sciences	Life sciences	Psychology	Social sciences
Total . . . . .	- 1.5	- 2.0	- 4.3	- 4.3	0.1	4.8	- 0.9
U. S. Government . . . . .	- 9.6	- 9.6	-11.8	-19.6	- 8.8	- 4.4	- 5.7
Institutional support . . . . .	- 1.3	- 2.5	- .9	- 5.8	.7	4.2	- 1.9
Other outside support . . . . .	- 5.0	- 7.0	- 4.2	- 6.1	3.4	14.0	-12.8
Self-support . . . . .	14.5	17.2	16.9	22.6	17.6	24.5	6.7

<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

Full-time graduate students, by type and source of major support, 1969-71<sup>a</sup>



departments reporting for 1969, 1970, and 1971.

ation (appendix table C-17A).



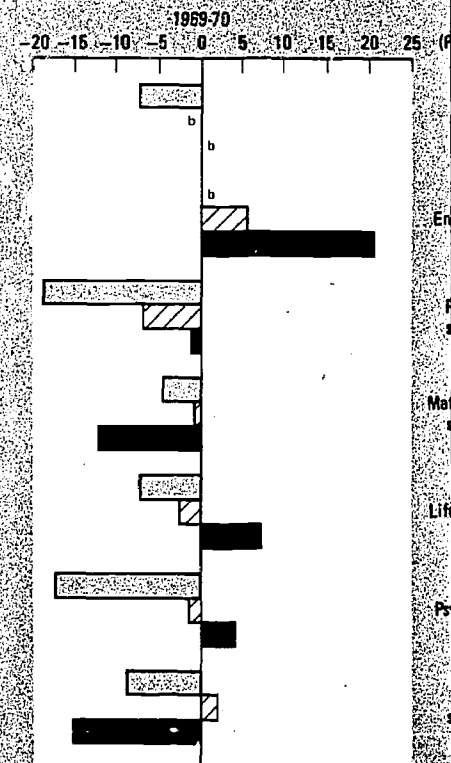
## TYPE OF INSTITUTION

An important factor determining the size and makeup of the future scientific manpower pool is the enrollment of science students entering graduate school for the first time. For this purpose, institutions applying for NSF traineeships were separated into four major types: (1) The "first 20," meaning those institutions which were selected by the largest number of applicants for NSF fellowships over the period 1968 through 1971; (2) the "developing" institutions, referring to those 65 institutions that first granted science Ph.D.'s subsequent to the 1960-61 academic year; (3) the 12 medical schools applying for NSF traineeships; and (4) the 127 remaining institutions, shown in this analysis as "intermediate" graduate schools. In each of these categories full-time enrollment data were presented for each broad area of science by level of study, i.e., first-year and beyond-first-year students, for two periods, 1969 to 1970 and 1970 to 1971. (See technical notes, appendix A, for further explanatory remarks on the classification scheme utilized for this analysis.)

Analysis in this section is confined to data reported by 212 institutions, omitting the 12 medical schools that reported a first-year enrollment of only 129 students in 1971 and were not considered illustrative of medical schools as a whole.

The "first 20" institutions reduced first-year enrollment at a greater rate than did the developing or intermediate institutions in both periods studied in virtually all areas of science.

Change in the number of first-year  
area of science and type of institution



\*Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.  
 †Less than 0.5 percent change.  
 SOURCE: National Science Foundation.

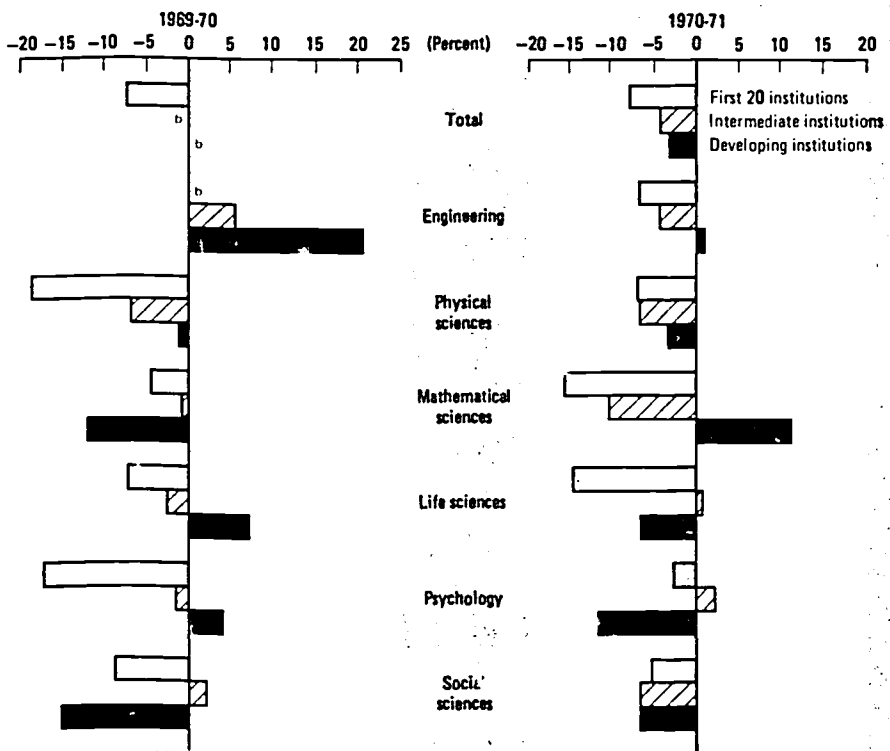
# INSTITUTION

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mediate institutions in both periods stud-

Change in the number of first-year full-time graduate students, by area of science and type of institution, 1969-71<sup>a</sup>



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.  
<sup>b</sup>Less than 0.5 percent change.  
SOURCE: National Science Foundation.

As expected, first-year enrollment in the 13 private institutions of the "first 20" category was affected severely by prevailing funding limitations, resulting in an enrollment drop of over 11 percent from 1969 to 1970. This group lost an additional 2 percent in first-year enrollees in the following year. In the seven public institutions the pattern was reversed: reductions in the number of first-year entrants were greatest in the 1970-71 period, 13 percent, than in the earlier period, 4 percent.

Full-time enrollment in the "first 20" institutions was down in both periods, with first-year enrollment showing losses in each area of science.

Percent change in full-time enrollment in "first 20" institutions<sup>a</sup>

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	- 2.3	- 4.2	- 7.4	- 7.8
Engineering . . . .	.1	- 3.6	(b)	- 6.7
Physical sciences .	- 6.1	- 5.4	-18.4	- 7.1
Mathematical sciences	- .5	- 4.4	- 4.5	-15.4
Life sciences . . . .	1.0	- 7.3	- 7.2	-14.6
Psychology . . . .	- 5.6	1.8	-17.3	- 2.6
Social sciences . . .	- 3.5	- 3.3	- 8.8	- 5.1

<sup>a</sup>Based on selection of these institutions by the most number of NSF Fellows from 1968 through 1971.

<sup>b</sup>Less than 0.05 percent change.

In contrast to the "first 20" institutions, the 65 "developing" graduate schools, as shown below, actually gained in overall full-time enrollment in all areas of science during the first period.

These enrollment gains were not maintained at the same rate in the following period, however, and psychology and the social sciences actually reflected losses. The number of first-year students declined in these developing universities in all but engineering and the mathematical sciences in the latest period, indicating this group of institutions was also beginning to feel the slump in science enrollment, but not to the same extent as that of the "first 20" schools.

Percent change in full-time enrollment in "developing" institutions<sup>a</sup>

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	7.5	0.3	0.1	- 3.0
Engineering . . . .	15.5	6.5	20.9	1.0
Physical sciences .	2.0	.5	- .9	- 3.3
Mathematical sciences	5.0	1.4	-12.0	11.7
Life sciences . . .	9.5	2.5	7.3	- 6.7
Psychology . . . . .	8.0	- 2.3	4.1	-11.5
Social sciences . . .	7.6	- 6.1	-15.5	- 6.4

<sup>a</sup>Based on the institution's first awarding of science Ph.D.'s in academic year 1960-61, according to data from the Office of Education.



rollment in the 13 "first 20" category was affected by funding limitations. This group lost an average of over 11 percent of its first-year enrollees in the public institutions. The greatest loss was in the mathematics area, with a drop of over 11 percent in the earlier

the "first 20" institutions in the first period, with first-year losses in each area of

#### Enrollment in graduate students<sup>a</sup>

	First year	
	1969-70	1970-71
Total . . .	- 7.4	- 7.8
Engineering . . . .	(b)	- 6.7
Physical sciences . .	-18.4	- 7.1
Mathematical sciences	- 4.5	-15.4
Life sciences . . . .	- 7.2	-14.6
Psychology . . . . .	-17.3	- 2.6
Social sciences . . .	- 8.8	- 5.1

most number of NSF

In contrast to the "first 20" institutions, the 65 "developing" graduate schools, as shown below, actually gained in overall full-time enrollment in all areas of science during the first period.

These enrollment gains were not maintained at the same rate in the following period, however, and psychology and the social sciences actually reflected losses. The number of first-year students declined in these developing universities in all but engineering and the mathematical sciences in the latest period, indicating this group of institutions was also beginning to feel the slump in science enrollment, but not to the same extent as that of the "first 20" schools.

#### Percent change in full-time enrollment in "developing" institutions<sup>a</sup>

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	7.5	0.3	0.1	- 3.0
Engineering . . . .	15.5	6.5	20.9	1.0
Physical sciences . .	2.0	.5	- .9	- 3.3
Mathematical sciences	5.0	1.4	-12.0	11.7
Life sciences . . . .	9.5	2.5	7.3	- 6.7
Psychology . . . . .	8.0	- 2.3	4.1	-11.5
Social sciences . . .	7.6	- 6.1	-15.5	- 6.4

<sup>a</sup>Based on the institution's first awarding of science Ph.D.'s in academic year 1960-61, according to data from the Office of Education.

The group of 127 intermediate institutions was also affected by the enrollment slump, with only the life sciences and psychology reflecting any measurable gains in first-year students in the 1970-71 period. Increases in engineering and the social sciences from 1969 to 1970 were not maintained in 1971.

#### Percent change in full-time enrollment in "intermediate" institutions<sup>a</sup>

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	(b)	- 0.5	- 0.2	- 4.2
Engineering . . . .	2.7	- 2.0	5.5	- 4.4
Physical sciences . .	- 3.1	- 4.7	- 6.9	- 6.9
Mathematical sciences	1.6	- 5.0	- .8	-10.1
Life sciences . . . .	- .8	1.8	- 2.4	.5
Psychology . . . . .	1.7	6.5	- 1.6	2.4
Social sciences . . .	- .1	1.5	2.1	- 6.4

<sup>a</sup>Based on the 127 remaining doctorate-granting institutions applying for NSF traineeships.

<sup>b</sup>Less than 0.05 percent change.

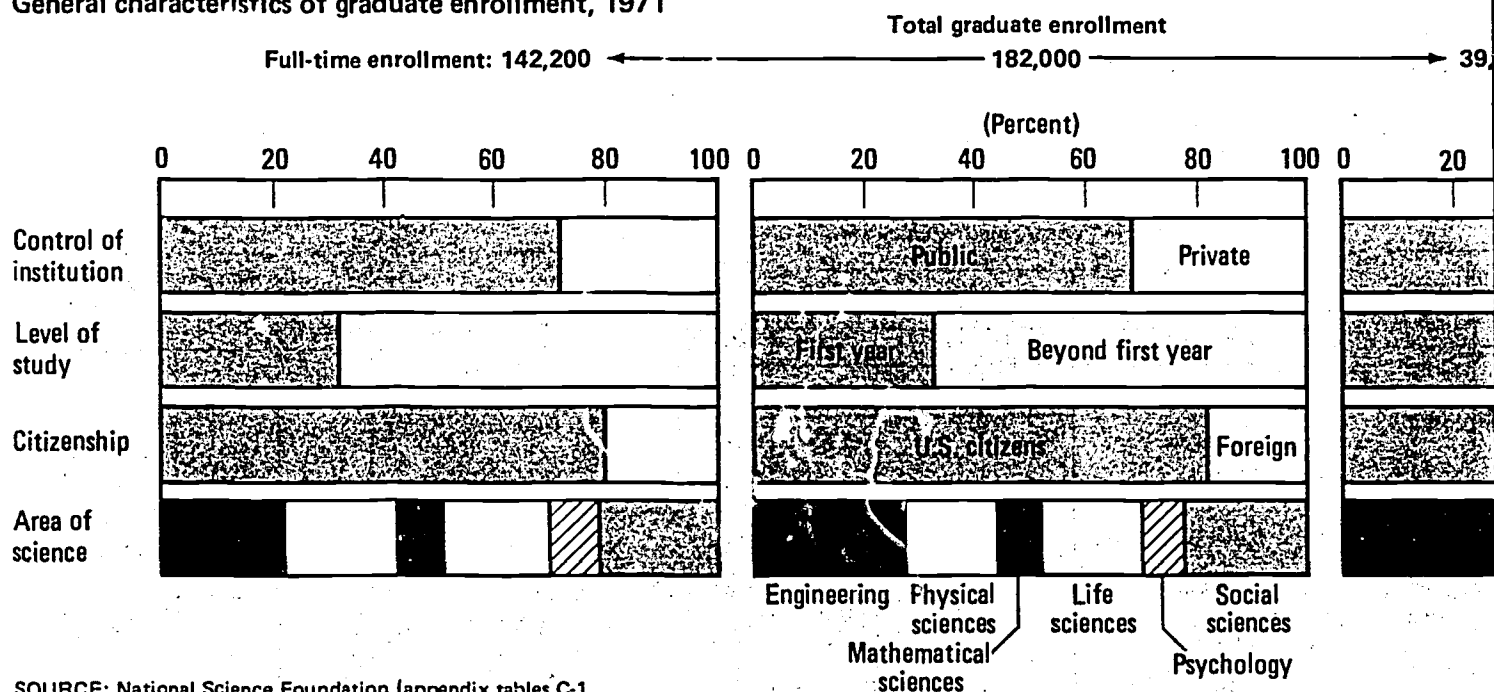
## Section 2. CHARACTERISTICS OF GRADUATE STUDENT FALL 1971

### General Enrollment Patterns

The preceding section presented trend data reported by the 2,579 doctorate science departments that submitted information over a 3-year period, 1969-71. This section analyzes the data supplied by the entire 2,990 doctor-

ate departments in the 224 doctorate-granting institutions in 1971. These institutions had a total of 182,000 graduate students in the fall of 1971; 142,169 of these were

General characteristics of graduate enrollment, 1971

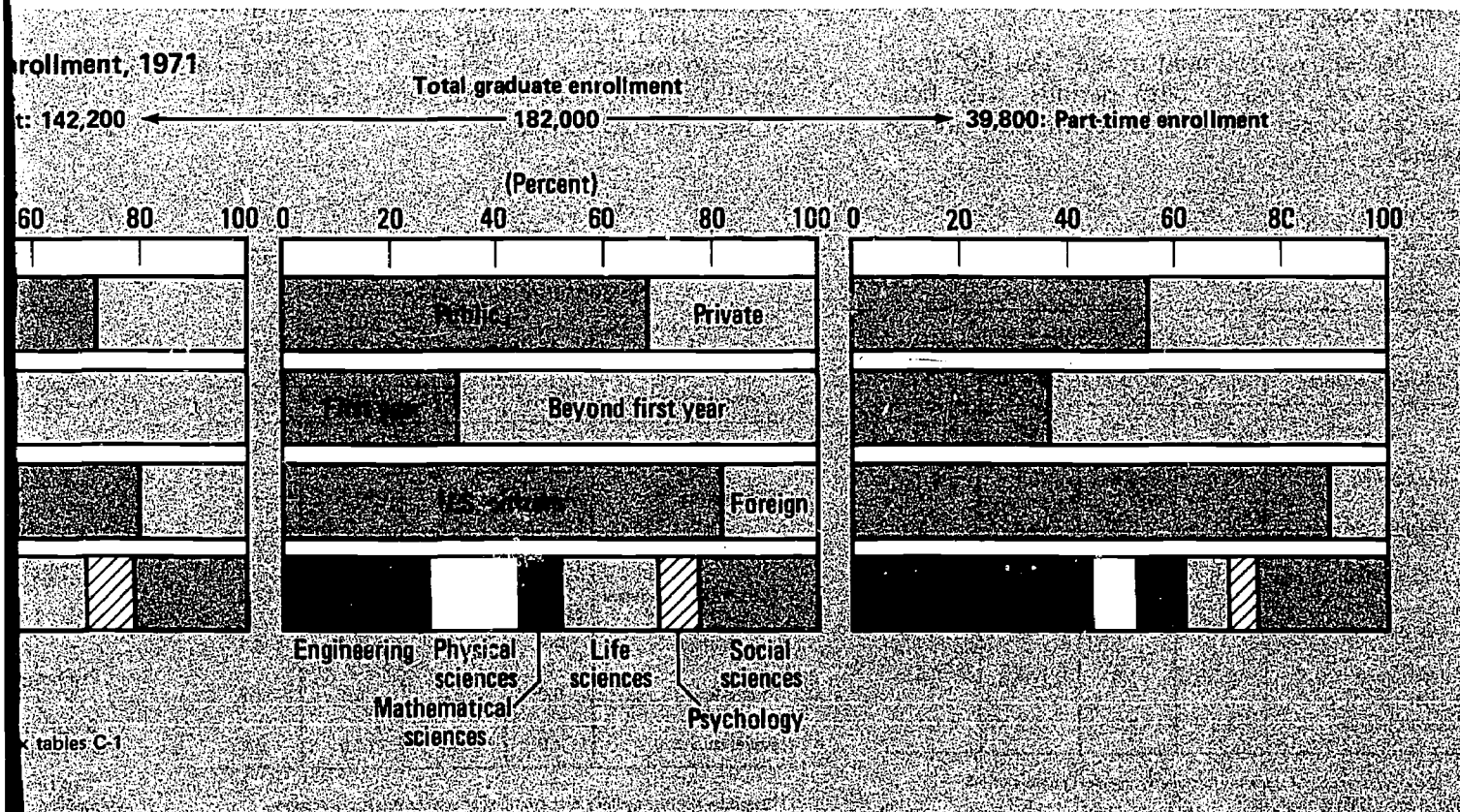


SOURCE: National Science Foundation (appendix tables C-1 through C-5 and D-8 and D-9).

# CHARACTERISTICS OF GRADUATE STUDENT SUPPORT, 1971

and data reported by the 2,579 doc-  
ed information over a 3-year period,  
supplied by the entire 2,990 doctor-

ate departments in the 224 doctorate-granting institutions applying for NSF  
traineeships in 1971. These institutions enrolled 182,001 graduate students  
in the fall of 1971; 142,169 of these were full-time students, or 78 percent.



Publicly controlled institutions enrolled more than two-thirds, or 123,676, of all graduate students, 82 percent of whom attended full time. Registration in privately controlled institutions, on the other hand, reflected a considerably smaller proportion of full-time students — 69 percent. Students who had completed one or more years of graduate study made up the largest portion of full-time enrollments, over two-thirds, with little distinction being evident between the proportion attending public and private institutions, as shown below:

Control of institution	Percent distribution	
	Total	First-year students
Public . . . . .	100	32
Private . . . . .	100	31

Foreign students represented 20 percent of full-time graduate enrollment and 11 percent of the part-time enrollment. Little more than two-thirds of foreign full-time students were enrolled in public institutions. An even larger proportion, nearly three-fourths, of U.S. citizens were enrolled in public universities, as shown here:

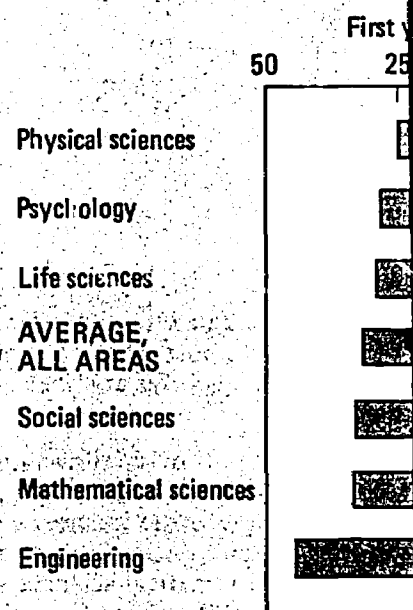
Control of institution	Percent distribution	
	U.S. citizens	Foreign students
Total . . . . .	100	100
Public . . . . .	73	67
Private . . . . .	27	33

Note: See appendix tables D-8 and D-9 for detailed data on institutional control.

Engineering attracted 38 percent of foreign full-time enrollment, almost double the 20-percent share reported in the second largest field of study, the physical sciences. The heaviest concentration of U.S. citizens was found in the social and life sciences, registering 22 percent each.

The largest proportion of full-time students enrolled beyond their first year were in the physical sciences. Engineering students in their first year were the only group among the various fields to exceed one-third of total enrollment.

Full-time graduate students, by



SOURCE: National Science Foundation (1960)



institutions enrolled more than two-thirds, or students, 82 percent of whom attended full time. Controlled institutions, on the other hand, reflected a proportion of full-time students — 69 percent. Students one or more years of graduate study made up the majority of enrollments, over two-thirds, with little distinction in the proportion attending public and private in-

Institution	Percent distribution	
	Total	First-year students Beyond-first-year students
.....	100	32 68
.....	100	31 69

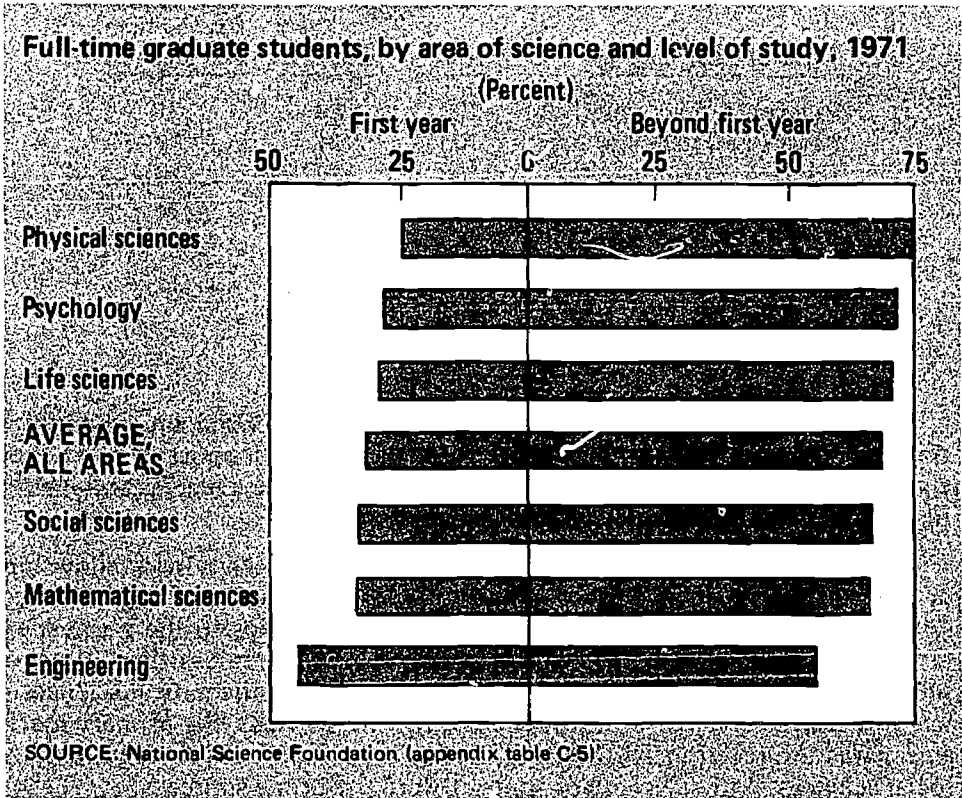
represented 20 percent of full-time graduate enrollment. Little more than two-thirds of students were enrolled in public institutions. And by three-fourths, of U.S. citizens were enrolled in public institutions here:

Institution	Percent distribution	
	U.S. citizens	Foreign students
.....	100	100
.....	73	67
.....	27	33

See tables D-8 and D-9 for detailed data on institutional control.

8 percent of foreign full-time enrollment, almost all reported in the second largest field of study, the highest concentration of U.S. citizens was found in engineering, registering 22 percent each.

of full-time students enrolled beyond their first year of study. Engineering students in their first year of study in the various fields to exceed one-third of total



## Types of Major Support

The number of fellowships-traineeships in 1971 exceeded that of teaching assistantships only slightly, with each accounting for approximately one-fourth of full-time enrollments, and research assistantships accounted for another fifth. When examined in terms of types of support, the various areas of science presented a diverse picture. In the physical sciences, for instance, over 85 percent of the graduate students had some form of fellowship, traineeship, or assistantship, but in the social sciences the percentage was only about 58.

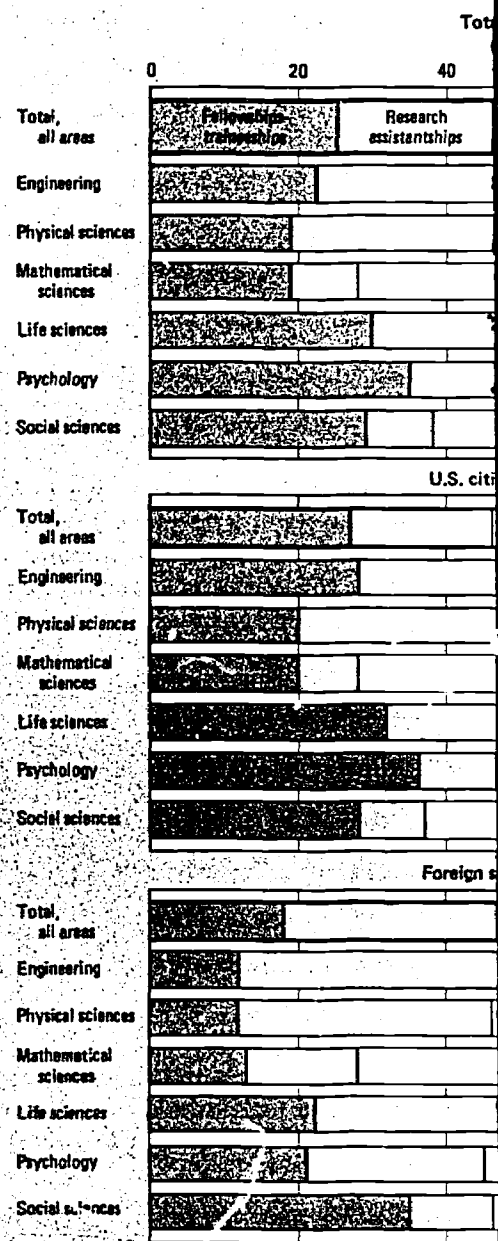
Between 70 percent and 79 percent of students relying on some form of traditional support were advanced students, while 58 percent of those relying on "other" types of support were in this category, as illustrated below:

Types of major support	Total	Percent distribution	
		First-year students	Beyond-first-year students
Fellowships-traineeships . . .	100	29	71
Research assistantships . . . .	100	21	79
Teaching assistantships . . . .	100	30	70
Other types of support . . . .	100	43	58

Graduate students holding U.S. citizenship depended on fellowships-traineeships more than on any other form of outside support in 1971. Foreign students, because of restrictions imposed by some agencies and institutions, depended most heavily on research assistantships.

In the life sciences and psychology, more U.S. citizens held fellowships or traineeships than any other support. In the physical and mathematical sciences, U.S. citizens relied upon teaching assistantships to the greatest extent; in engineering and the social sciences, primarily upon "other" types of support. This pattern — except in the physical and mathematical sciences — was not repeated for foreign students. In the life sciences, the primary mechanism was the research assistantship, and in engineering, psychology, and the social sciences, "other" types of support were the prime source.

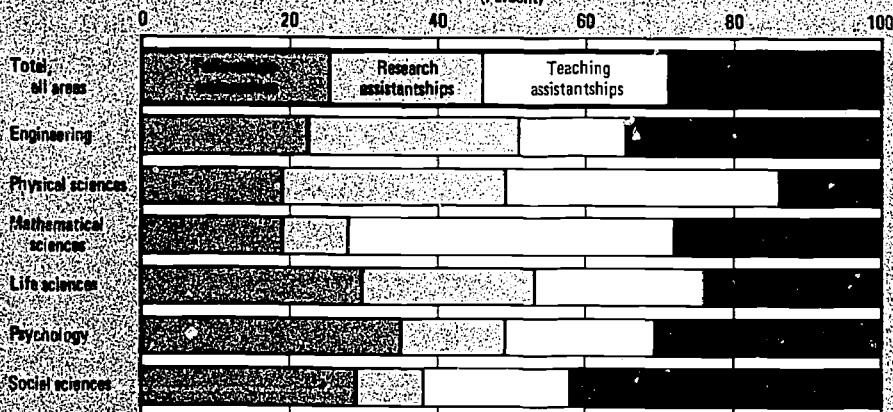
Distribution of full-time graduate student support and area of science, 1971



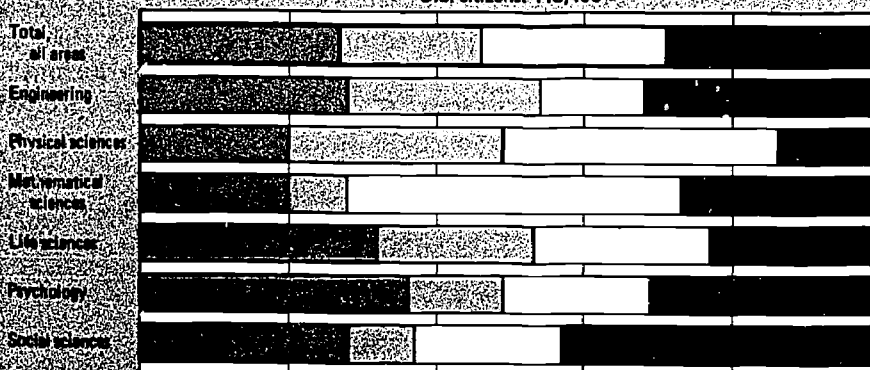
SOURCE: National Science Foundation (appendix table)

# **Distribution of full-time graduate students, by type of major support and area of science, 1971**

Total: 142,200  
(Percent)



U.S. citizens: 113,400



Foreign students: 28,800



SOURCE: National Science Foundation (appendix tables C-6 and C-7)

in 1971 exceeded that of teaching assistantships accounting for approximately one-fifth of support, the various areas of the physical sciences, for instance, some form of fellowship, training, or research assistantships the percentage was only

students relying on some form of fellowship, while 58 percent of those relying on research assistantships, as illustrated below:

## **Percent distribution**

First-year students	Beyond-first-year students
29	71
21	79
30	70
43	58

relationship depended on fellowships—fellowships of outside support in 1971. For example, in the physical and mathematical sciences, the primary mechanism of support was research assistantships.

For U.S. citizens held fellowships in the physical and mathematical sciences to the greatest extent—primarily upon “other” types of support. In the life sciences, the primary mechanism of support was research assistantships, and in the social sciences, the primary mechanism of support was research assistantships.

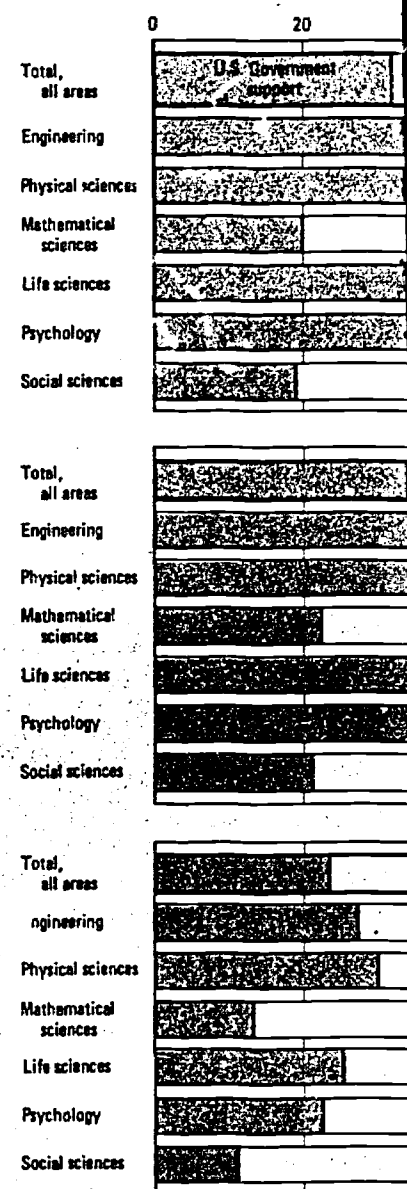
## Sources of Major Support

Full-time students received the major portion of their support in 1971 from their own institutions and/or State and local governments, with Federal support ranking second.

In three areas of science — the physical, mathematical, and life — institutional support was the major source of financial aid. In the social sciences, students relied primarily on self-support; in engineering and psychology, upon the Federal Government.

Approximately one-third of all U.S. citizens attending graduate school full time in these fields received support from the Federal Government, but an even larger proportion depended upon institutional support. Foreign students displayed a strong dependency on institutional support, in virtually all areas of science, since certain types of Federal assistance were not available to them.

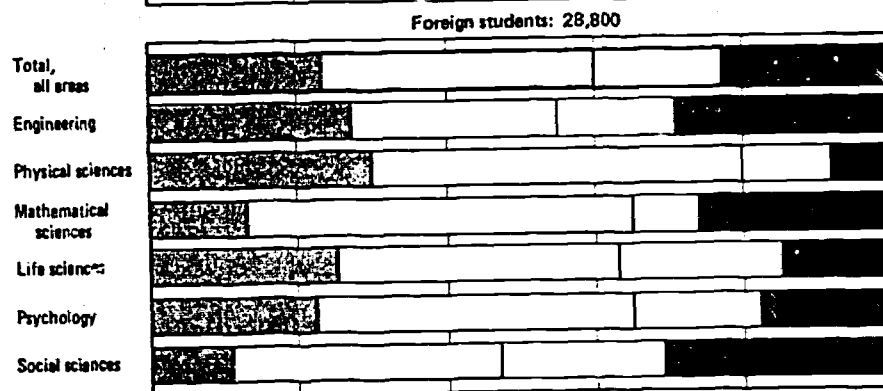
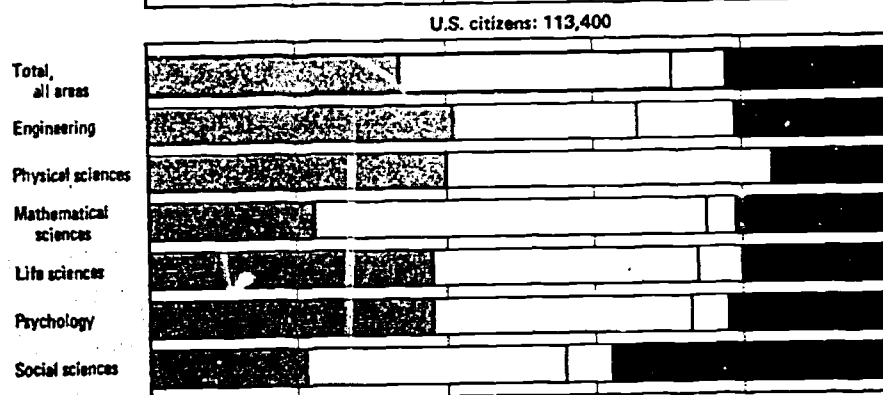
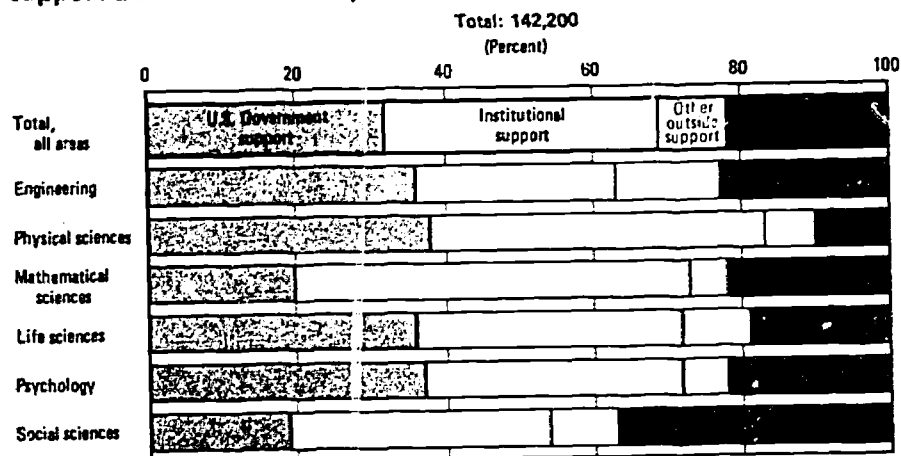
Distribution of full-time graduate support and area of science, 1971



SOURCE: National Science Foundation (1972)



# Distribution of full-time graduate students by source of major support and area of science, 1971



SOURCE: National Science Foundation (appendix tables C-9, and D-1 - D-7).

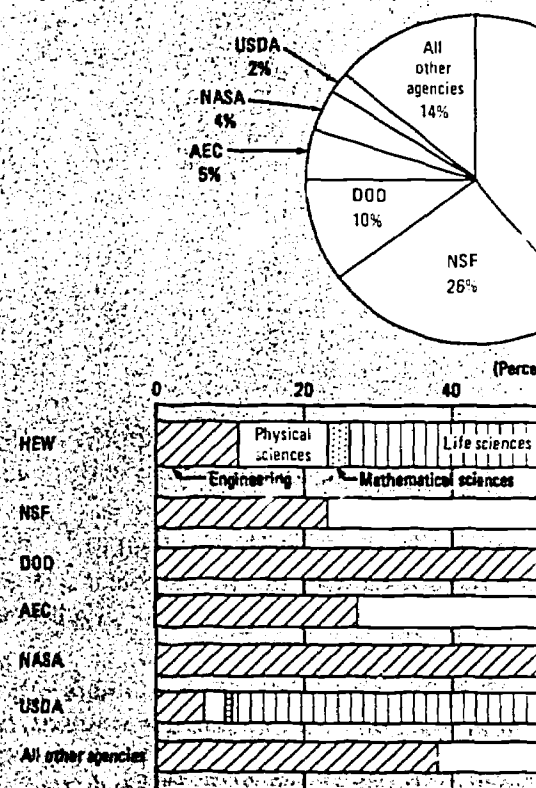
major portion of their support in 1971 came from state and local governments, with Federal

support in the physical, mathematical, and life — institutional support; in the social sciences, support; in engineering and psychology,

U.S. citizens attending graduate school received support from the Federal Government, but relied more upon institutional support. Foreign students, on institutional support, in virtually all areas where Federal assistance were not available

The Federal Government supported 45,101 full-time graduate students, or 32 percent of the total, in 1971. The accompanying chart shows that two agencies combined to generate almost two-thirds of the awards made; HEW supported 17,734 and NSF supported 11,598. Because of the major role played by the Public Health Service, HEW's support was concentrated in the life sciences, where over one-third of its awards were made to full-time students. NSF's support was concentrated in physical sciences and engineering. DOD, AEC, and NASA together accounted for less than one-fifth of the graduate students receiving Federal support. Concentration of their awards among fields of science was consonant with their primary missions. For example, over one-half of DOD- and NASA-supported students were enrolled in engineering, and nearly two-thirds of AEC-supported students were enrolled in physical sciences programs.

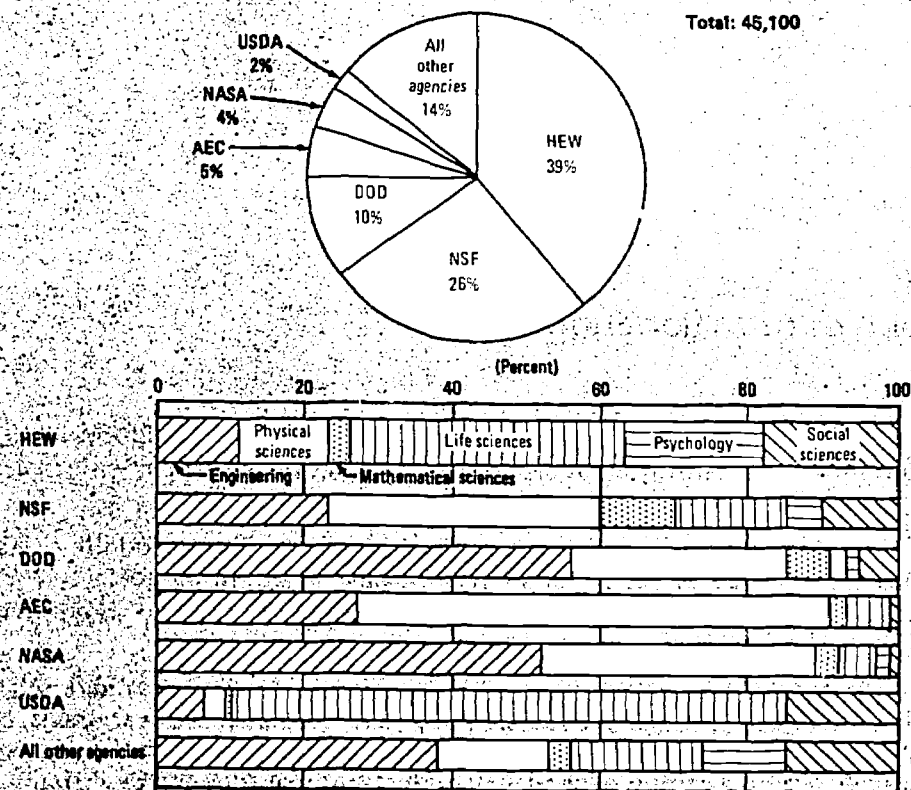
**Distribution of federally supported full-time graduate students by agency and area of science, 1971**



SOURCE: National Science Foundation (appendix table C-9)

ment supported 45,101 full-time graduate students, in 1971. The accompanying chart shows that two agencies generate almost two-thirds of the awards made; HEW and NSF supported 11,598. Because of the major role of the Health Service, HEW's support was concentrated in the physical sciences and engineering. One-third of its awards were made to full-time students concentrated in physical sciences and engineering. HEW and NSF together accounted for less than one-fifth of the total Federal support. Concentration of their awards was consonant with their primary missions. For example, DOD- and NASA-supported students were enrolled in two-thirds of AEC-supported students were enrolled in nuclear programs.

**Distribution of federally supported full-time graduate students, by agency and area of science, 1971**

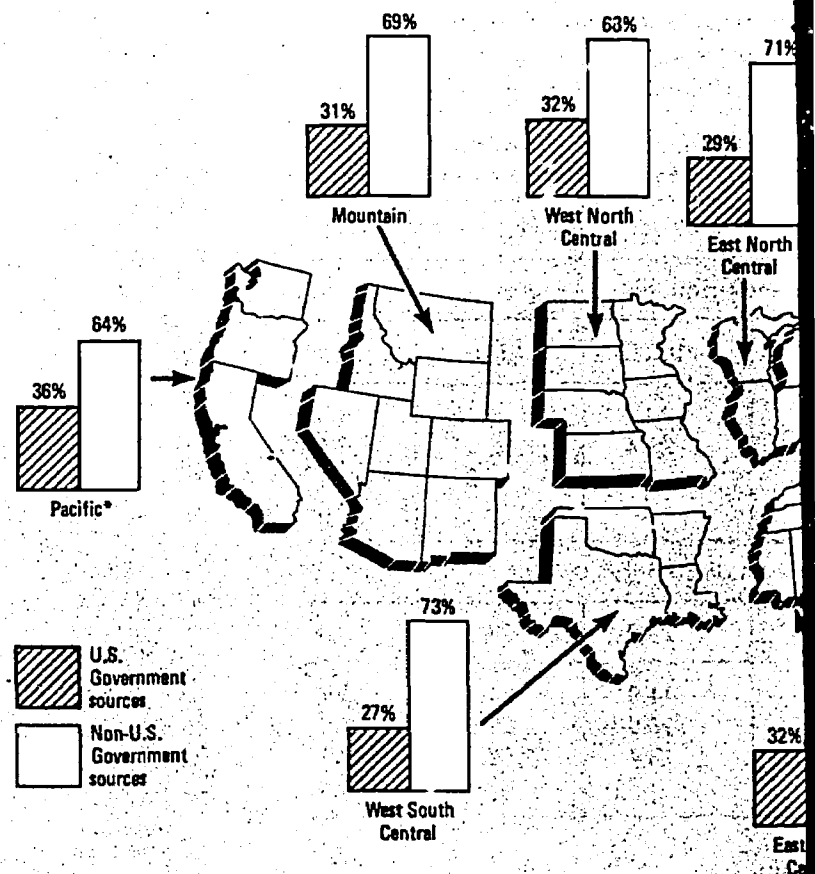


SOURCE: National Science Foundation (appendix table C6).

An examination of the geographic distribution of full-time students showed a concentration of 21 percent in the East North Central division, followed in order by the Middle Atlantic, with 17 percent, and the Pacific, with 16 percent. Each division was further analyzed in terms of Federal and non-Federal support. Thirty-seven percent of New England's students received support of some sort from the Federal Government. The Pacific ranked a close second, with 36 percent; this division was completely dominated by one State, California, in which over 70 percent of the students receiving Federal support were located.

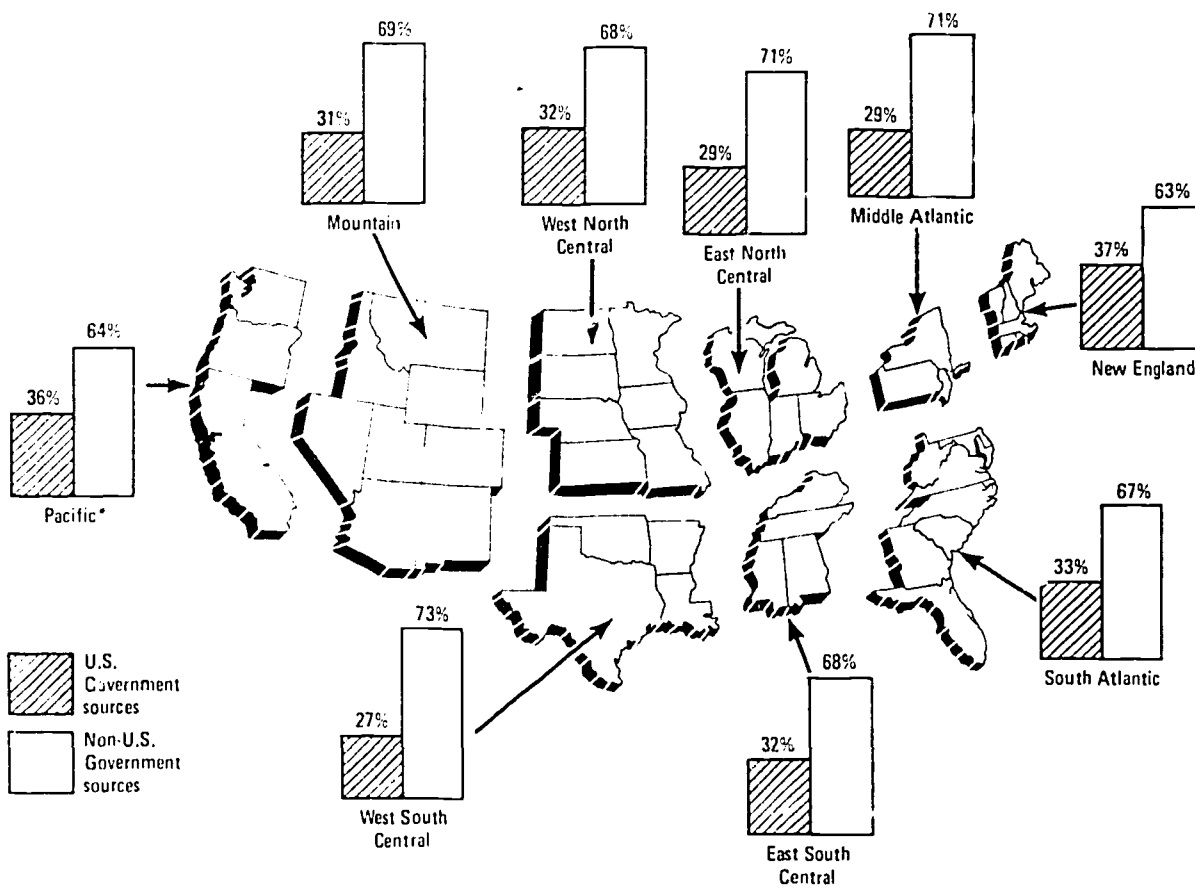
The West South Central division had the lowest percentage of federally supported students, 27 percent. The phenomenon of one State enrolling a majority of the federally supported students is also reflected here, where Texas enrolled 61 percent, as well as the Middle Atlantic and New England divisions, where New York registered 57 percent, and Massachusetts, 64 percent, respectively.

**Geographic distribution of full-time graduate students, by source of major support, 1971**



\*Includes Hawaii and Alaska.  
SOURCE: National Science Foundation (appendix table C-13).

Geographic distribution of full-time graduate students, by source of major support, 1971



\*Includes Hawaii and Alaska

SOURCE: National Science Foundation (appendix table C-13).

A little over two-thirds of all full-time graduate students, or 97,068, received their support from outside the Federal Government in 1971. More than one-half of these students received institutional support which includes that from State or local governments. One-fourth of the students receiving such institutional support were studying in the physical sciences. Students dependent upon nonprofit foundations and self-support were concentrated in the social sciences. Engineering dominated the support from the industrial sector as well as that from all "other" sources.

Nearly two-thirds of all fellowshipships were financed by the Federal Government. More than one-half of these students received institutional support which includes that from State or local governments. One-fourth of the students receiving such institutional support were studying in the physical sciences. Students dependent upon nonprofit foundations and self-support were concentrated in the social sciences. Engineering dominated the support from the industrial sector as well as that from all "other" sources.

Of the federally supported students, nearly two-thirds received fellowships-traineeships or research assistantships. Of the nonfederally supported students, nearly two-thirds received fellowships-traineeships or research assistantships.

Percent distribution of full-time graduate students in doctorate departments, by source and type of major support, 1971

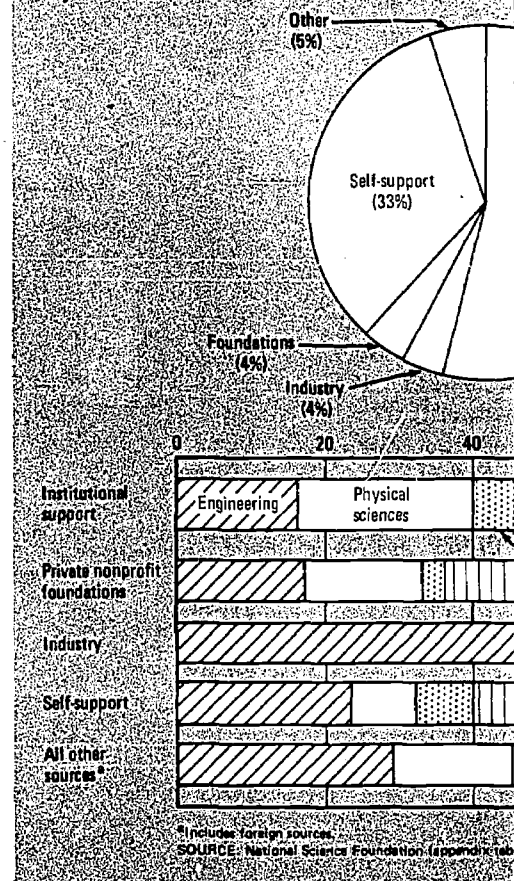
Sources of major support	Total	Fellowships and traineeships	Research assistantships	Teaching assistantships	Other types of support
Total (number) . .	142,169	36,103	29,668	35,140	41,258
Percent distribution, by source					
Total . . . . .	100.0	100.0	100.0	100.0	100.0
U.S. Government . . . .	31.7	64.2	63.7	1.2	6.3
Institutional support <sup>a/</sup> . .	37.0	19.7	28.4	98.0	6.4
Other outside support <sup>b/</sup> . .	8.8	16.0	7.9	.8	10.1
Self-support . . . . .	22.4	—	—	—	77.3
Percent distribution, by type					
Total . . . . .	100.0	25.4	20.9	24.7	29.0
U.S. Government . . . .	100.0	51.4	41.9	1.0	5.7
Institutional support . .	100.0	13.6	16.0	65.5	5.0
Other outside support . .	100.0	46.0	18.7	2.1	33.2
Self-support . . . . .	100.0	—	—	—	100.0

<sup>a/</sup> Includes institutions and State and local governments.

<sup>b/</sup> Includes private foundations, industry, and foreign sources.

SOURCE: National Science Foundation (appendix table C-10).

Distribution of nonfederally supported students by source and area of science, 1971





graduate students, or 97,068, re-  
 tal Government in 1971. More  
 tutional support which includes  
 outh of the students receiving  
 the physical sciences. Students  
 self-support were concentrated  
 the support from the industrial

Nearly two-thirds of all fellowships-traineeships and research assistant-  
 ships were financed by the Federal Government. Almost all teaching assis-  
 tantships were funded by institutions or State and local governments. Those  
 students depending upon "other" mechanisms of support were predominantly  
 self-supporting.

Of the federally supported students, over 90 percent utilized either  
 fellowships-traineeships or research assistantships. Only 1 percent of full-  
 time students received federally financed teaching assistantships.

nts in doctorate departments,  
 support, 1971

Research assistantships	Teaching assistantships	Other types of support
9,668	35,140	41,258

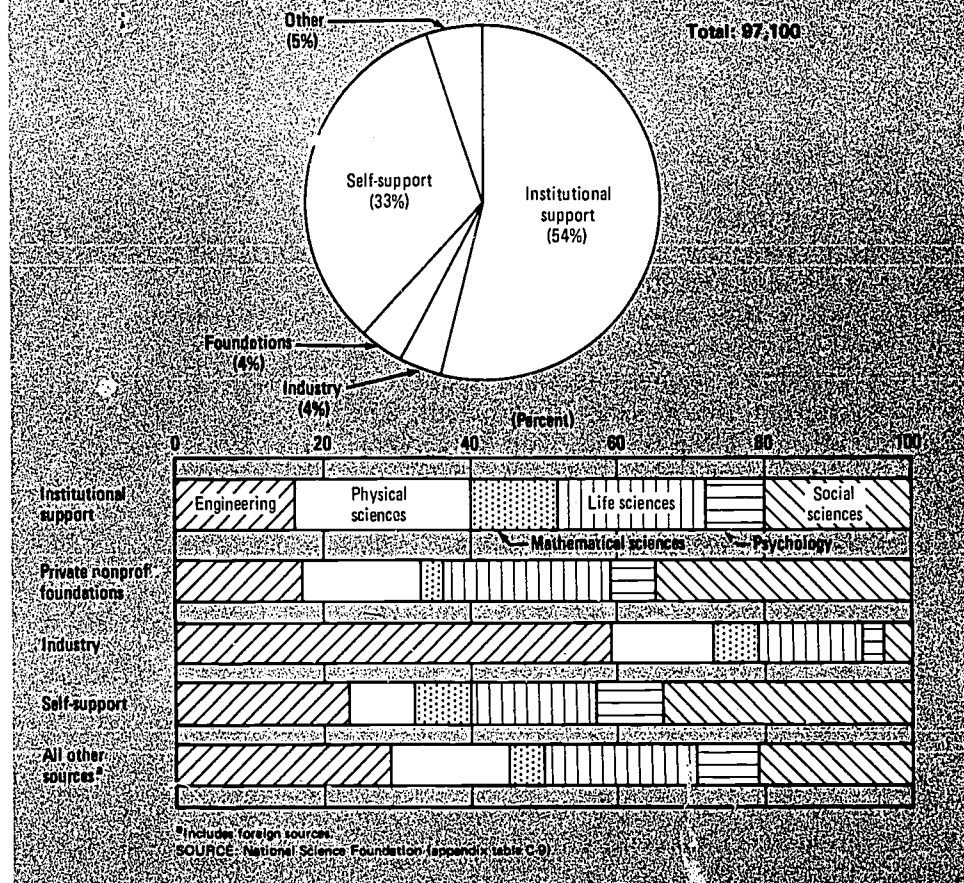
bution, by source

100.0	100.0	100.0
63.7	1.2	6.3
28.4	98.0	6.4
7.9	.8	10.1
—	—	77.3

tribution, by type

20.9	24.7	29.0
41.9	1.0	5.7
16.0	65.5	5.0
18.7	2.1	33.2
—	—	100.0

Distribution of nonfederally supported full-time graduate students,  
 by source and area of science, 1971



## Section 3. SCIENCE FACULTY AND POSTDOCTORALS

### Trends, 1960-71<sup>5</sup>

For the purpose of this report, staff members with an academic rank of instructor or above who are involved in either undergraduate or graduate programs of an institution are termed "faculty". If a staff member teaches one or more courses or seminars or if he directs the research of one or more students, he is considered to be a full-time member of the faculty. The term "graduate" faculty is used here to refer to those staff members who are significantly involved in the graduate academic program only. Part-time graduate faculty members have major responsibilities outside of the department, such as administrators, affiliate professors, extension service, museum staff, etc.

Science departments reported an increase in full-time faculty of some 1,300 between 1969 and 1971, a gain of less than 3 percent. This rise is probably a reflection of the increasing teaching load imposed by the 8-percent increase in total enrollment for degree credit in all fields from 1969 to 1971.<sup>6</sup> Evidence of the pattern of increased undergraduate teaching responsibilities is supported by data available from OE which shows an increase of 8 percent from academic year 1969 to 1970 and another 3 percent from 1970 to 1971 in the number of bachelor's and first professional degrees awarded in the sciences and engineering.<sup>7</sup>

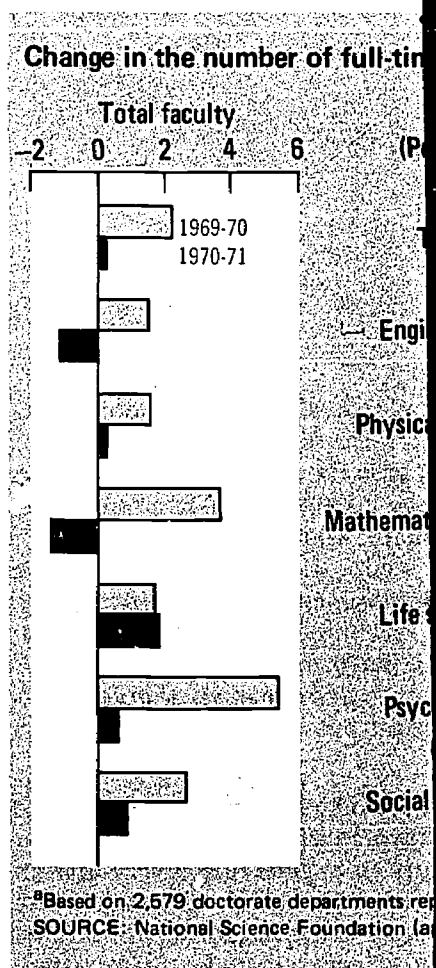
Both engineering and the mathematical sciences showed decreases in the number of full-time faculty from 1970 to 1971. Among the remaining areas of science, all but the life sciences showed slower rates of increase in 1971; full-time faculty in the life sciences increased by 2 percent in both periods.

Except for the life sciences where graduate faculty increased at a slightly higher rate in 1971 than in 1970, the number of such personnel remained relatively stable in all remaining fields. During the previous period, every field showed considerable gains.

<sup>5</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

<sup>6</sup>Advance data on *Opening Fall Enrollment*, 1971 from the Office of Education.

<sup>7</sup>Department of Health, Education, and Welfare, Office of Education, *Earned Degrees Conferred*, various years.





# SCIENCE FACULTY AND POSTDOCTORALS

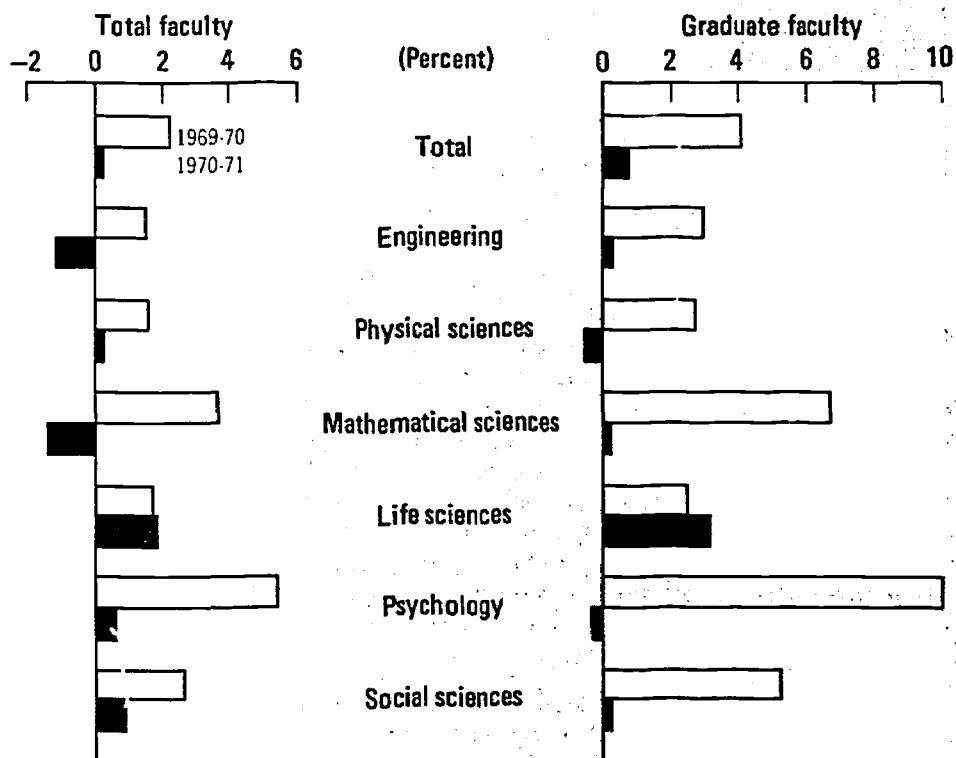
part, staff members with an academic rank of  
involved in either undergraduate or graduate  
termed "faculty". If a staff member teaches  
or if he directs the research of one or more  
full-time member of the faculty. The term  
to refer to those staff members who are sig-  
academic program only. Part-time graduate  
responsibilities outside of the department, such  
sors, extension service, museum staff, etc.

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a gain of less than 3 percent. This rise is  
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1970 to 1971. Among the remaining areas  
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es increased by 2 percent in both periods.

where graduate faculty increased at a slightly  
, the number of such personnel remained  
fields. During the previous period, every

Change in the number of full-time faculty, by area of science, 1969-71<sup>a</sup>



<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix table C-19).

ing for 1969, 1970, and 1971.

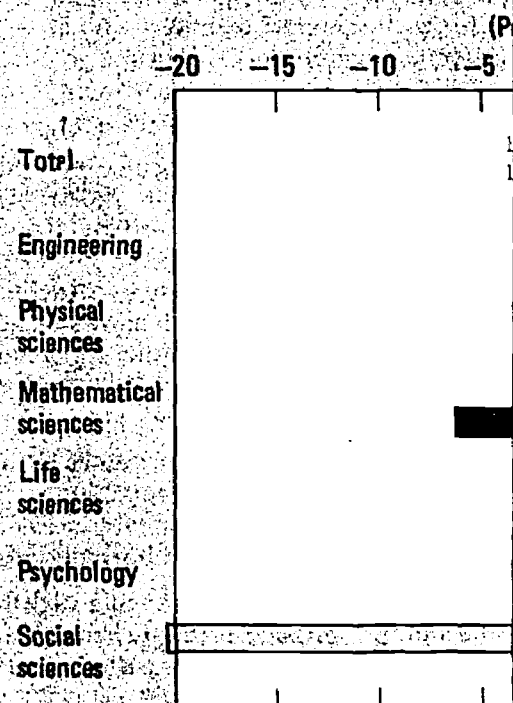
1971 from the Office of Education.

re, Office of Education, *Earned Degrees Conferred*,

Postdoctorals are defined in this study as individuals holding doctorates who are assigned on a full-time basis to perform research or to study in a graduate science department, usually for a specific time period. These scholars have no academic rank but may contribute to the graduate program by lecturing or supervising the work of graduate students. Appointments of this type enable the scholar to augment his education and experience in a specific field prior to seeking permanent employment and, in turn, tend to strengthen the department's research and teaching capabilities. Currently, some holders of these appointments may be performing a "holding action," as these positions are regarded as stepping stones to permanent appointments in either industry or higher education. For the purpose of this report, research associates are included in this category.

Although graduate science enrollment declined from 1970 to 1971 and the growth rate of full-time faculty slowed down considerably, the number of postdoctorals accelerated rapidly, particularly in engineering. Every area of science except the mathematical and social sciences experienced an increase in postdoctorals. Because data for this study were compiled from applications to the NSF Traineeship Program, the life sciences may be understated.

Change in the number of postdoctorals, (P)



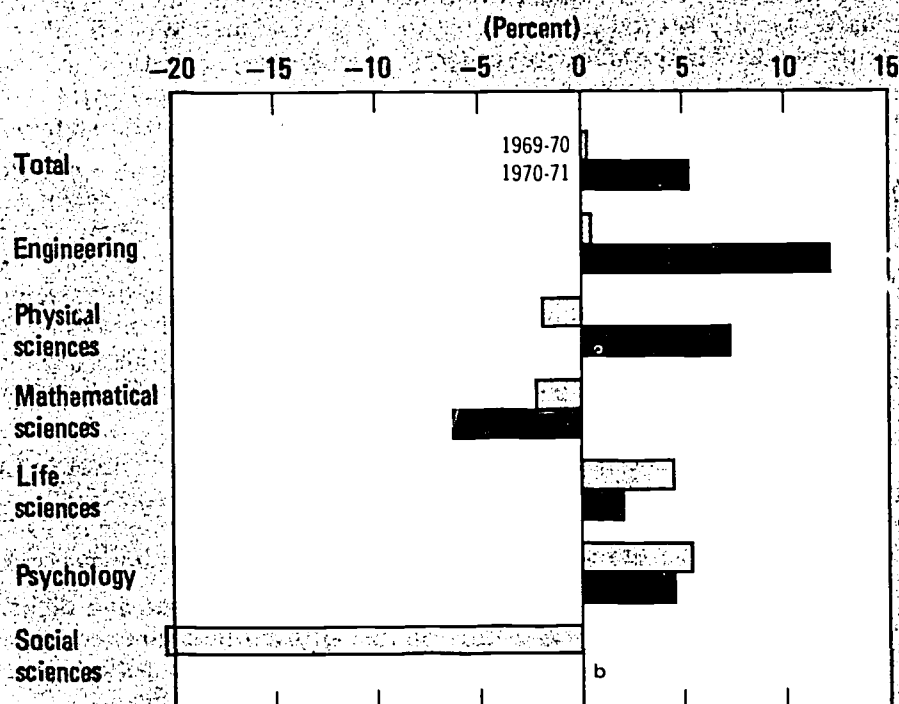
\*Based on 2,579 doctorate departments reporting for  
 bNo change.

SOURCE: National Science Foundation (appendix)

in this study as individuals holding doctorates on the basis to perform research or to study in a field for a specific time period. These scholars may contribute to the graduate program by the work of graduate students. Appointments of postdoctorals to augment his education and experience in a field for permanent employment and, in turn, tend to increase research and teaching capabilities. Currently, postdoctorals may be performing a "holding action," as stepping stones to permanent appointments in the field. For the purpose of this report, research categories are as follows:

Postdoctoral enrollment declined from 1970 to 1971 and enrollment slowed down considerably, the number of postdoctorals, particularly in engineering. Every area of science and social sciences experienced an increase in postdoctorals. For this study were compiled from applications for postdoctoral fellowships, the life sciences may be understated.

Change in the number of postdoctorals, by area of science, 1969-71<sup>a</sup>

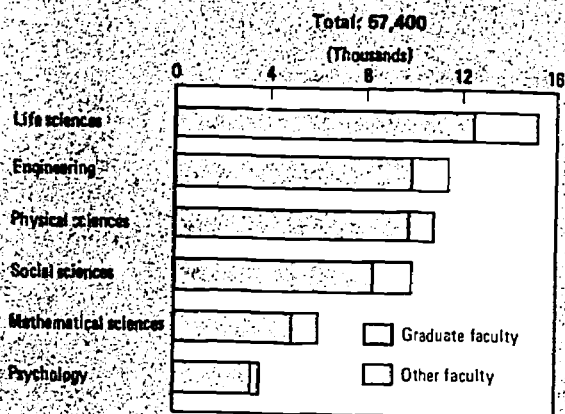


<sup>a</sup>Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

<sup>b</sup>No change.

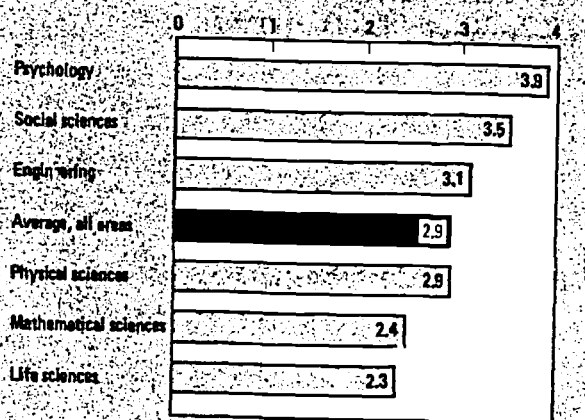
SOURCE: National Science Foundation (appendix table C-20).

**Full-time faculty, by area of science, 1971**



SOURCE: National Science Foundation (appendix tables C-1 and C-14).

**Full-time graduate students per graduate faculty member, by area of science, 1971**



SOURCE: National Science Foundation (appendix tables C-1 and C-14).

## Fall 1971 Characteristics<sup>8</sup>

Eighty-five percent of the 57,363 full-time faculty members reported by doctorate science departments in 1971 were classified as graduate faculty. The life sciences, as in prior years, accounted for the largest number, over one-fourth of the graduate faculty.

The initial publication in this series reported a ratio of 3.3 full-time graduate students per graduate faculty member in 1966.<sup>9</sup> By 1971, this ratio had been reduced to 2.9. Psychology, which enrolled the lowest number of students—9 percent of the total—had the highest ratio, and the life sciences, representing 20 percent of the students, had the lowest.

Seventy-one percent of the postdoctorals reported in 1971 were classified as "recent" doctorals, referring to those who received their doctorate some time after 1967. The highest concentration within this group, 77 percent, occurred in the physical sciences.

The physical sciences had the lowest faculty to postdoctoral ratio. This field accounted for 20 percent of the graduate faculty and 43 percent of the postdoctorals. The social sciences had the highest ratio, and accounted for 17 percent of the faculty at the graduate level and only 2 percent of the postdoctorals.

When the doctorate-granting institutions reporting in 1971 were classified according to control of the institution, a close correlation was evident between graduate faculty and graduate students. Public institutions attracted over 71 percent of both faculty and students. However, the publicly controlled institutions employed just over one-half of the postdoctorals.

<sup>8</sup>Based on 2,990 doctorate departments reporting for 1971.  
<sup>9</sup>National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), p. 59.

## Postdoctoral

Physical sciences

Life sciences

Engineering

Psychology

Mathematical sciences

Social sciences

SOURCE: National Science Foundation

## Full-time graduate students per graduate faculty member, by area of science, 1971

Social sciences

Mathematical sciences

Psychology

Engineering

Average, all areas

Life sciences

Physical sciences

SOURCE: National Science Foundation

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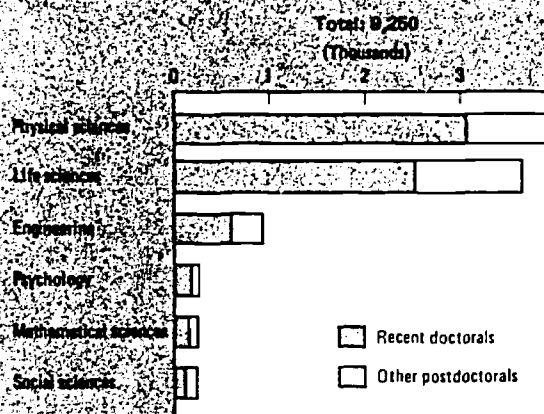
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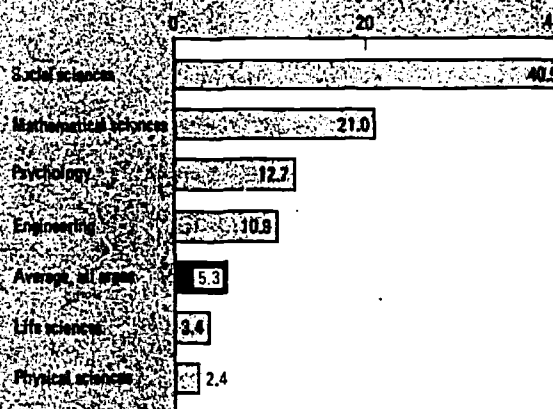
<sup>9</sup>National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13)(Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), p. 59.

## Postdoctorals, by area of science, 1971



SOURCE: National Science Foundation (appendix table C-14).

## Full-time graduate faculty per postdoctoral, by area of science, 1971



SOURCE: National Science Foundation (appendix table C-14).

## APPENDIXES

- A. Technical Notes
- B. Institutions Participating in the Graduate  
Traineeship Program, Fall 1971
- C. Statistical Tables
- D. Instructions and Consolidated  
Departmental Data Sheets



# APPENDIX A

## Technical Notes

Table	Page
A-1 Doctorates awarded in the sciences and engineering by the 224 institutions applying for NSF traineeships, compared with total science doctorates granted by all U. S. Institutions of higher education, by area of science, academic years ended June 30, 1967-71 . . . . .	24
A-2 Graduate science enrollment in 227 doctorate institutions covered in the 1970 study, compared with 1970 enrollment for advanced degrees, by area of science and department degree level . . . . .	25
A-3 Number of doctorate departments in the 224 institutions covered in the study, by area and field of science, 1971 . . . . .	26
A-4 Comparison of matched doctorate departments, 1969-71, with departments reporting for 1971 only, by area and field of science . . . . .	32

The Graduate Traineeship Program, inaugurated by the National Science Foundation in 1964, provides information regarding the types and sources of graduate science student support and the number of science faculty and postdoctorals. Departmental Data Sheets, which supported applications for traineeships by doctorate-granting institutions, have remained substantially unchanged from 1967 to 1971. Thus, the statistics compiled from these applications represent a consistent source of data. The data reported for 1971 from 2,990 doctorate science departments were machine-matched with data from the same departments submitting information for 1969 and 1970. This process selected 2,579 departments which reported consistently for 3 years, but excluded newly organized doctorate departments and others not applying for traineeships in the earlier years.

The data available from the Graduate Traineeship Program has been the subject of analysis in four previous reports; the present publication constitutes the fifth in the series.<sup>1</sup> Because of the discontinuance of the Program, the Division of Science Resources Studies has developed an expanded survey of both master's and doctorate departments in doctorate-granting institutions for fall 1972 in order to continue to make available similar information during a critical period in the advancement of graduate science education. Initial findings of this fall 1972 survey will be published in a *Science Resources Studies Highlights* in the summer of 1973.

<sup>1</sup> National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13); *Support of Full-Time Graduate Students in the Sciences, Fall 1967* (NSF 69-34); *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1969* (NSF 70-40); and *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1970* (NSF 71-27) (Washington, D. C. 20402: Supt. of Documents, U.S. Government Printing Office).

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<sup>2</sup>See appen  
mental Data

The Graduate Traineeship Program, inaugurated by the National Science Foundation in 1964 provides information regarding the types and sources of graduate science student support and the number of science faculty and postdoctorals. Departmental Data Sheets, which supported applications for traineeships by doctorate-granting institutions, have remained substantially unchanged from 1967 to 1971. Thus, the statistics compiled from these applications represent a consistent source of data. The data reported for 1971 from 2,990 doctorate science departments were machine-matched with data from the same departments submitting information for 1969 and 1970. This process selected 2,579 departments which reported consistently for 3 years, but excluded newly organized doctorate departments and others not applying for traineeships in the earlier years.

The data available from the Graduate Traineeship Program has been the subject of analysis in four previous reports; the present publication constitutes the fifth in the series.<sup>1</sup> Because of the discontinuance of the Program, the Division of Science Resources Studies has developed an expanded survey of both master's and doctorate departments in doctorate-granting institutions for fall 1972 in order to continue to make available similar information during a critical period in the advancement of graduate science education. Initial findings of this fall 1972 survey will be published in a *Science Resources Studies Highlights* in the summer of 1973.

Since 1966, the number of institutions applying for traineeships has increased 10 percent and the number of doctorate departments, 23 percent, as shown below:

Year	Number of institutions	Number of departments		
		Total	Master's	Doctorate
1966. . .	204	2,866	441	2,425
1967. . .	209	3,016	436	2,580
1968. . .	219	3,190	454	2,736
1969. . .	224	3,354	460	2,894
1970. . .	227	3,544	473	3,071
1971. . .	224	3,397	407	2,990

Announcement of the phasing out of the Program resulted in fewer applications in the last year.

## Definitions<sup>2</sup>

**Highest degree offered (Item 4).** Institutions in which at least one department offered science doctorates were eligible for NSF traineeships. In such institutions, departments offering master's as their highest degree were also eligible. Analysis in this report, however, has been limited to science doctorate departments.

**Degrees granted (Item 5).** Departments were asked to report the degrees granted during the period July 1, 1970 through June 30, 1971, by level, i.e., bachelor's, master's, master's in teaching, and doctoral degrees. When two or more departments conferred joint degrees, they were to be reported by one department only. Degree output is compared with data from the Office of Education in appendix table A-1 and appears also in the Consolidated Departmental Data Sheets appearing in Appendix D.

<sup>2</sup>See appendix D for the instructions used to complete the Departmental Data Sheet (NSF Form 345).

<sup>1</sup>National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13); *Support of Full-Time Graduate Students in the Sciences, Fall 1967* (NSF 69-34); *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1969* (NSF 70-40); and *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1970* (NSF 71-27) (Washington, D. C. 20402: Supt. of Documents, U.S. Government Printing Office).



**Enrollment status.** The definition of a full-time student as used in the traineeship program differs from that used in the Office of Education in its Higher Education General Information Survey.<sup>3</sup> A full-time student as referred to in this report is engaged entirely in training activities in his field of science, including any combination of study, teaching, and research. Any other student enrolled for degree credit is considered part time. The OE definition, in contrast, specifies that a full-time student is one whose academic load is at least 75 percent of the normal load expected of such students, and a part-time student is one who carries less than three-fourths of a normal load. Any attempt to compare data collected through the two sources should be done with these differences in mind.

**Level of study.** A first-year graduate student is one who, in the fall of the year of application, is entering graduate school for the first time or has completed less than a normal year of graduate study. All graduate students who had completed the first year of study or more were classified as beyond-first-year or advanced graduate students.

**Citizenship.** Citizens of the United States or native residents of a possession of the United States were considered U.S. citizens. All others, including those who have applied for U.S. citizenship, were considered foreign.

**Types of major support (Item 6).** Four types of major support were indicated, without definitions, as follows: Fellowships and traineeships, teaching assistantships, research assistantships, and all other mechanisms of support. The Federal Interagency Committee on Education (FICE) differentiates between the two *fellowship and traineeship* stipends as follows: (1) A fellowship is an "award made directly to or on behalf of a student selected in a national com-

petition, to enable him to pursue postbaccalaureate training," and (2) a traineeship is "an educational award to a student selected by his university." Except for the student selection process, the terms and conditions of the two types of awards are generally identical, according to the Student Support Study Group.<sup>4</sup> Both fellowships and traineeships allow the graduate student a wide degree of freedom while pursuing his training without requiring any specific services to the institution in exchange.

A *graduate research assistant* is usually required to perform specific duties under the direction or supervision of a faculty member or other departmental professional staff member. These appointments are usually associated with research grants or contracts administered by faculty or other principal investigators from earmarked funds. This type of program may impose a considerable workload on the student. However, participation in such projects often affords the graduate student the opportunity to apply the research to his dissertation requirements, thus expediting the completion of his academic work.

Of the several mechanisms available for supporting graduate students, the *teaching assistantship* is often the most demanding in terms of time and effort required. Teaching assistantships tend to be viewed as less desirable than other traditional forms of financial support in that they often entail rigorous and time-consuming duty assignments which sometimes lengthen the time required for completion of graduate work. On the other hand, such work experience is valuable to students preparing for careers in science, particularly those planning to join university faculties. Moreover, graduate teaching assistants render important services to universities.

<sup>3</sup>Department of Health, Education, and Welfare, Office of Education, *Students Enrolled for Advanced Degrees*, various years.

<sup>4</sup>Federal Interagency Committee on Education, Student Support Study Group, *Report on Federal Predoctoral Student Support, Part 1 - Fellowships and Traineeships* (Washington, D.C.), April 1970.

petition, to enable him to pursue postbaccalaureate training," and (2) a traineeship is "an educational award to a student selected by his university." Except for the student selection process, the terms and conditions of the two types of awards are generally identical, according to the Student Support Study Group.<sup>4</sup> Both fellowships and traineeships allow the graduate student a wide degree of freedom while pursuing his training without requiring any specific services to the institution in exchange.

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The last category of support, known as *other* mechanisms, represents the group of students who are primarily self-supporting, or whose support cannot be described as one of the three types mentioned above. This would include support from savings, loans, families, part-time non-academic work, etc.

**Sources of major support.** An amount of \$1,200 was initially stipulated as major support and has been maintained in subsequent years to ensure comparability of data. For purposes of analysis of major sources of support, four sources were used: (1) U.S. Government; (2) institutional support (including State and local governments and "This" institution); (3) all other outside sources, such as private nonprofit foundations, industry, and foreign organizations; and (4) self-support, including loans and family support.

**Part-time graduate students (Item 9).** Four entries were provided for the students who were enrolled for advanced degrees on an other than full-time basis, i.e., first-year and beyond-first year U.S. citizens and the same entries for foreign students. A separate category (Item 8) was provided for "special" students who were not enrolled for degree credit.

**Faculty (Item 10).** These were staff of academic rank of instructor or above, who were significantly involved in the graduate or undergraduate academic program of the department; i.e., teaching one or more graduate courses or seminars and/or directing the research of one or more graduate students. This included faculty on sabbatical leave who were expected to return, but visiting professors were to be excluded. Full-time faculty, including the department head, were those staff of academic rank of instructor or above with a full-time appointment in that department and whose major responsibilities were in the academic programs of that department. Research professors (and research associates with academic rank) were included in the full-time faculty count and also separately counted as those who met the definition for full-time faculty but did not

<sup>4</sup>Federal Interagency Committee on Education, Student Support Study Group, *Report on Federal Predoctoral Student Support, Part 1 - Fellowships and Traineeships* (Washington, D.C.), April 1970.

teach any regularly scheduled courses. Part-time faculty were those who met the faculty definition but have major responsibilities or activities *outside* the department. This included deans, affiliate, or adjunct professors from other departments or outside the university, professors emeriti, experiment laboratory or extension service staff, museum staff, etc. Any one faculty member was counted as full-time in only one department.

Postdoctorals or research associates (Item 11). All individuals who devoted essentially full-time effort to research activities within that department, whose appointments were nonpermanent and who were not of academic rank were considered to be postdoctorals or research associates. Such individuals usually have an earned doctorate or the equivalent in experience and contributed to the academic program through seminars, lectures, or working with graduate students, but their postdoctoral activities were considered to have an element of additional training for them.

#### Statistical Coverage of Graduate Science Education

Statistics reported by the doctorate departments applying for NSF traineeships were considered to be highly representative of the general characteristics of all doctorate-granting institutions. The 2,990 doctorate science departments reporting for 1971 granted 95 percent of the doctorate science degrees awarded by all institutions of higher education, as shown in table A-1. In the physical sciences, these departments awarded 96 percent of the Ph. D. degrees; in mathematical sciences, 93 percent; and in psychology, 92 percent. In the life sciences, coverage represented only 81 percent of the total, due primarily to the award of such grants by the National Institutes of Health rather than by the National Science Foundation. In other areas where degrees awarded were higher than reported by OE, variations can be attributed to differences in reporting to the two Federal agencies and to differing definitions of scientific fields.

Examination of enrollment statistics provides another measure of the representativeness of traineeship statistics. At the time this report was prepared, data were not yet available from the Office of Education on enrollment for advanced degrees for fall 1971. Therefore, table A-2 compares OE enrollment data for 1970 with traineeship statistics for 1970 which were published in the previous report. At that time, the 227 doctorate institutions submitting traineeship applications accounted for 80 percent of the total U. S. science and engineering enrollment for advanced degrees. Doctorate departments accounted for 75 percent of the total and master's departments, 5 percent. Because of this limited representation of master's departments, the analysis in this report was confined to doctorate level departments. Coverage of graduate enrollment in doctoral departments varied from a high of 89 percent in the social sciences to a low of 52 percent in mathematical sciences. This relatively low percentage was due in part to the comparatively large enrollment in mathematics in institutions not eligible for NSF traineeships; i.e., those not granting science doctorates. Variations can also be attributed to the interpretation by institutions of the terminology and scientific disciplines used by NSF and OE, as stated earlier.

The science departments applying for traineeships employed many different titles. These departments were aggregated into the 41 fields of science utilized in all previous reports, and these fields were then grouped into six areas of science, as shown in table A-3.

As described earlier, departments reporting for 3 consecutive years were analyzed to determine the evolving patterns of support in each area of science. These 2,579 matched departments represented 86 percent of the total number of doctorate departments supplying statistics. The coverage represented by these matched departments is given in table A-4 for each of the 41 fields of science.

Table A-1 — Doctorates awarded in the sciences and engineering by the 224 institutions applying for NSF traineeships, compared with total science doctorates granted by all U. S. institutions of higher education, by area of science, academic years ended June 30, 1967-71

Area of science and academic year	U. S. total, all institutions <sup>a</sup>	Institutions applying for traineeships, 1971	
		Doctorates awarded	Percent of total
<b>Total:</b>			
1967 .....	12,931	12,121	93.4
1968 .....	14,420	13,364	92.7
1969 .....	15,982	14,998	93.8
1970 .....	17,639	17,206	97.5
1971 <sup>b</sup> .....	18,466	17,613	95.4
<b>Engineering:</b>			
1967 .....	2,581	2,731	105.8
1968 .....	2,833	3,003	106.0
1969 .....	3,234	3,514	108.7
1970 .....	3,681	3,681	100.0
1971 .....	3,654	3,720	101.8
<b>Physical sciences:</b>			
1967 .....	3,478	3,327	95.7
1968 .....	3,642	3,495	96.0
1969 .....	3,901	3,704	95.0
1970 .....	4,313	4,170	96.7
1971 .....	4,391	4,235	96.4
<b>Mathematical sciences:</b>			
1967 .....	828	808	97.6
1968 .....	970	949	97.8
1969 .....	1,063	1,071	100.8
1970 .....	1,343	1,273	94.8
1971 .....	1,327	1,231	92.8
<b>Life sciences:</b>			
1967 .....	3,116	2,442	78.4
1968 .....	3,681	2,802	76.1
1969 .....	4,116	3,154	76.6
1970 .....	4,131	3,693	89.4
1971 .....	4,746	3,821	80.5
<b>Psychology:</b>			
1967 .....	1,293	1,058	81.8

1970 . . . . .	17,639	17,206	97.5
1971 <sup>b</sup> . . . . .	18,466	17,613	95.4
<b>Engineering:</b>			
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1969 . . . . .	4,116	3,154	76.6
1970 . . . . .	4,131	3,693	89.4
1971 . . . . .	4,746	3,821	80.5
<b>Psychology:</b>			
1967 . . . . .	1,293	1,058	81.8
1968 . . . . .	1,452	1,155	81.7
1969 . . . . .	1,728	1,398	80.9
1970 . . . . .	1,668	1,561	93.6
1971 . . . . .	1,782	1,632	91.6
<b>Social sciences:</b>			
1967 . . . . .	1,685	1,755	104.2
1968 . . . . .	1,842	1,929	104.7
1969 . . . . .	1,940	2,157	111.2
1970 . . . . .	2,503	2,828	113.0
1971 . . . . .	2,566	2,974	115.9

<sup>a</sup>Based on USOE statistics on earned degrees conferred, various years, by U. S. institutions of higher education.

<sup>b</sup>Unpublished data provided by USOE.

**Table A-2 — Graduate science enrollment in 227 doctorate institutions covered in the 1970 study, compared with 1970 enrollment for advanced degrees, by area of science and department degree level**

Area of science	Enrollment for advanced degrees, fall 1970 <sup>a</sup>	Graduate students enrolled in 227 doctorate institutions covered in 1970 study					
		All departments		Doctorate departments		Master's departments	
		Number	Percent of total	Number	Percent of total	Number	Percent of total
Total . . . . .	252,159	201,918	80.1	188,773	74.9	13,145	5.2
Engineering . . . . .	64,788	54,805	84.6	51,107	78.9	3,698	5.7
Physical sciences . . . . .	40,113	34,856	86.9	33,648	83.9	1,208	3.0
Mathematical sciences . . . . .	30,608	18,028	58.9	16,041	52.4	1,987	6.5
Life sciences . . . . .	46,260	34,755	75.1	33,486	72.4	1,269	2.7
Psychology . . . . .	25,342	15,256	60.2	14,473	57.1	783	3.1
Social sciences . . . . .	45,048	44,218	98.2	40,018	88.8	4,200	9.3

<sup>a</sup>Based on U. S. Office of Education, *Students Enrolled for Advanced Degrees, Fall 1970, Summary Data (OE-72-64)* (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office). Data for 1971 were not available at time of this report.

**Table A-3. — Number of doctorate departments in the 224 institutions covered in the study, by area and field of science, 1971**

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title
Total . . . . .	2,990	Electrical, total . . . . .
Engineering . . . . .	664	Electrical and instrumental . . . . .
Aeronautical, total . . . . .	33	Electrical computer science . . . . .
Aeronautical and astronautical engineering . . . . .	3	Electrical engineering . . . . .
Aeronautical engineering . . . . .	1	Engineering science, total . . . . .
Aeronautics . . . . .	1	Applied mechanics . . . . .
Aeronautics and astronautics . . . . .	6	Applied science . . . . .
Aerospace engineering . . . . .	18	Engineering acoustics . . . . .
Aerospace engineering and engineering physics . . . . .	2	Engineering mechanics . . . . .
Astronautics . . . . .	1	Engineering science . . . . .
Space science . . . . .	1	Engineering and applied physics . . . . .
Agricultural, total . . . . .	24	Mechanical science . . . . .
Agricultural and irrigation engineering . . . . .	1	Mechanics . . . . .
Agricultural engineering . . . . .	21	Mechanics and hydraulics . . . . .
Wood technology . . . . .	1	Theoretical and applied mechanics . . . . .
Wood products engineering . . . . .	1	Industrial, total . . . . .
Chemical, total . . . . .	92	Administrative science . . . . .
Chemical engineering . . . . .	83	Applied analysis . . . . .
Chemical engineering and materials science . . . . .	2	Communications . . . . .
Chemical and metallurgical engineering . . . . .	4	Industrial communication engineering . . . . .
Chemical and nuclear engineering . . . . .	2	Industrial engineering . . . . .
Textiles . . . . .	1	Industrial engineering and management . . . . .
Civil, total . . . . .	88	Industrial engineering and operations research . . . . .
Civil engineering . . . . .	71	Management . . . . .
Civil engineering hydraulics . . . . .	1	Management engineering . . . . .
Civil engineering and engineering mechanics . . . . .	3	Management science . . . . .
Civil and environmental engineering . . . . .	5	Operations research . . . . .
Civil and geological engineering . . . . .	2	Organization behavior . . . . .
Environmental engineering . . . . .	4	Systems engineering . . . . .
Environmental sciences and engineering . . . . .	2	Mechanical, total . . . . .
		Aerospace and mechanical engineering . . . . .
		Marine engineering and naval architecture . . . . .
		Mechanical engineering . . . . .
		Mechanical engineering and applied mechanics . . . . .
		Mechanical and aeronautical engineering . . . . .

Departments in the 224  
and field of science, 1971

Departmental title	Doctorate departments	Area, field of science, and departmental title	Doctorate departments
		Electrical, total . . . . .	108
	2,990	Electrical and instrumental . . . . .	1
		Electrical computer science . . . . .	2
	664	Electrical engineering . . . . .	105
	33	Engineering science, total . . . . .	40
	3	Applied mechanics . . . . .	4
	1	Applied science . . . . .	1
	1	Engineering acoustics . . . . .	1
	6	Engineering mechanics . . . . .	15
	18	Engineering science . . . . .	8
Physics	2	Engineering and applied physics . . . . .	1
	1	Mechanical science . . . . .	1
	1	Mechanics . . . . .	5
		Mechanics and hydraulics . . . . .	1
	24	Theoretical and applied mechanics . . . . .	3
	1	Industrial, total . . . . .	53
	21		
	1	Administrative science . . . . .	1
	1	Applied analysis . . . . .	1
		Communications . . . . .	3
	92	Industrial communication engineering . . . . .	1
		Industrial engineering . . . . .	22
	83	Industrial engineering and management science . . . . .	3
	2	Industrial engineering and operations research . . . . .	6
	4	Management . . . . .	1
	2	Management engineering . . . . .	1
	1	Management science . . . . .	2
		Operations research . . . . .	5
	88	Organization behavior . . . . .	1
		Systems engineering . . . . .	6
	71		
	1	Mechanical, total . . . . .	102
	3		18
	5	Aerospace and mechanical engineering . . . . .	18
	2	Marine engineering and naval architecture . . . . .	1
	4	Mechanical engineering . . . . .	74
	2	Mechanical engineering and applied mechanics . . . . .	1
		Mechanical and aeronautical engineering and material science . . . . .	4



Table A-3. — Continued

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title
<b>Mechanical — Cont.</b>		Engineering . . . . .
Mechanical and industrial engineering . . . . .	1	Engineering mathematics . . . . .
Naval architecture . . . . .	2	Engineering physics and physics . . . . .
Transportation . . . . .	1	Polymer science and engineering . . . . .
		Thermal engineering . . . . .
<b>Metallurgical, total . . . . .</b>	<b>49</b>	<b>Physical sciences . . . . .</b>
Ceramic engineering . . . . .	4	Astronomy, total . . . . .
Ceramics . . . . .	1	Atmospheric sciences, total . . . . .
Material science . . . . .	7	Aeronautics and planet atmospheres . . . . .
Materials engineering . . . . .	10	Astrogeophysics . . . . .
Metallurgical engineering . . . . .	8	Astrophysics . . . . .
Metallurgical and materials engineering . . . . .	12	Atmospheric sciences . . . . .
Metallurgy . . . . .	6	Atmospheric and space sciences . . . . .
Solid state science and technology . . . . .	1	Meteorology . . . . .
<b>Mining, total . . . . .</b>	<b>9</b>	Meteorology and oceanography . . . . .
Geological engineering . . . . .	1	<b>Chemistry, total . . . . .</b>
Mineral engineering . . . . .	1	Chemistry . . . . .
Mining . . . . .	2	Crystallography . . . . .
Mining engineering . . . . .	4	Paper technology . . . . .
Mining and metallurgy . . . . .	1	Polymer science . . . . .
<b>Nuclear, total . . . . .</b>	<b>26</b>	<b>Geosciences, total . . . . .</b>
Nuclear engineering . . . . .	22	Earth and planetary science . . . . .
Nuclear science and engineering . . . . .	4	Earth sciences . . . . .
<b>Petroleum, total . . . . .</b>	<b>6</b>	Environmental sciences . . . . .
Petroleum engineering . . . . .	2	Geodetic science . . . . .
Petroleum and chemical engineering . . . . .	4	Geological science . . . . .
<b>Other engineering, total . . . . .</b>	<b>34</b>	Geology . . . . .
Applied physics . . . . .	4	Geology and geography . . . . .
Bioengineering . . . . .	1	Geology and geological engineering . . . . .
Biomedical engineering . . . . .	9	Geology and geophysics . . . . .
Biomedical engineering and mathematics . . . . .	1	Geophysical engineering . . . . .
Economics of engineering . . . . .	1	Geophysics . . . . .
Energy engineering . . . . .	1	Geophysics and planetary physics . . . . .
		Geosciences . . . . .
		Hydrology . . . . .

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title	Doctorate departments
Industrial engineering . . . . .	1	Engineering . . . . .	12
. . . . .	2	Engineering mathematics . . . . .	2
. . . . .	1	Engineering physics and physics . . . . .	1
		Polymer science and engineering . . . . .	1
		Thermal engineering . . . . .	1
	49	Physical sciences . . . . .	524
ng . . . . .	4	Astronomy, total . . . . .	23
. . . . .	1	Atmospheric sciences, total . . . . .	21
. . . . .	7	Aeronautics and planet atmospheres . . . . .	1
ing . . . . .	10	Astrogeophysics . . . . .	1
neering . . . . .	8	Astrophysics . . . . .	1
materials engineering . . . . .	12	Atmospheric sciences . . . . .	6
. . . . .	6	Atmospheric and space sciences . . . . .	1
and technology . . . . .	1	Meteorology . . . . .	9
. . . . .	9	Meteorology and oceanography . . . . .	2
ering . . . . .	1	Chemistry, total . . . . .	183
g . . . . .	1	Chemistry . . . . .	180
. . . . .	2	Crystallography . . . . .	1
. . . . .	4	Paper technology . . . . .	1
urgy . . . . .	1	Polymer science . . . . .	1
. . . . .	26	Geosciences, total . . . . .	107
g . . . . .	22	Earth and planetary science . . . . .	4
d engineering . . . . .	4	Earth sciences . . . . .	5
. . . . .	6	Environmental sciences . . . . .	2
ring . . . . .	2	Geodetic science . . . . .	1
chemical engineering . . . . .	4	Geological science . . . . .	16
. . . . .	34	Geology . . . . .	49
. . . . .	4	Geology and geography . . . . .	2
. . . . .	1	Geology and geological engineering . . . . .	4
ering . . . . .	9	Geology and geophysics . . . . .	7
ering and mathematics . . . . .	1	Geophysical engineering . . . . .	1
neering . . . . .	1	Geophysics . . . . .	5
. . . . .	1	Geophysics and planetary physics . . . . .	1
		Geosciences . . . . .	6
		Hydrology . . . . .	1

Table A.3. — Continued

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title
Geosciences — Cont.		Statistics, total . . . . .
Mineralogy . . . . .	1	Applied statistics . . . . .
Paleontology . . . . .	1	Biostatistics . . . . .
Petroleum geology . . . . .	1	Mathematical statistics . . . . .
Oceanography, total . . . . .	20	Statistics . . . . .
Marine biology . . . . .	1	Statistics and computer science . . . . .
Marine science . . . . .	4	Life sciences . . . . .
Ocean engineering . . . . .	3	Agricultural, total . . . . .
Oceanography . . . . .	11	Agricultural chemistry . . . . .
Water chemistry . . . . .	1	Agronomy . . . . .
Physics, total . . . . .	170	Agronomy and genetics . . . . .
Astronomy and space science . . . . .	1	Animal diseases . . . . .
Chemical physics . . . . .	4	Animal husbandry . . . . .
Electrophysics . . . . .	2	Animal industry . . . . .
Mathematical physics . . . . .	1	Animal nutrition . . . . .
Molecular physics . . . . .	1	Animal science . . . . .
Optical science . . . . .	1	Crop and soil science . . . . .
Optics . . . . .	1	Dairy science . . . . .
Physics . . . . .	141	Entomology . . . . .
Physics and astronomy . . . . .	16	Entomology and parasitology . . . . .
Physics and astrophysics . . . . .	1	Farm crops . . . . .
Plasma physics . . . . .	1	Floriculture . . . . .
Mathematical sciences . . . . .	214	Food science . . . . .
Applied mathematics, total . . . . .	35	Food science and technology . . . . .
Applied mathematics . . . . .	6	Food technology . . . . .
Applied mathematics and computer science . . . . .	2	Food and nutrition . . . . .
Computer science . . . . .	27	Forest chemistry . . . . .
Mathematics, total . . . . .	139	Forest economics . . . . .
Mathematical science . . . . .	1	Forest entomology . . . . .
Mathematics . . . . .	131	Forest management . . . . .
Mathematics and astronomy . . . . .	1	Forest resources . . . . .
Mathematics and statistics . . . . .	6	Forestry . . . . .
		Forestry and horticulture . . . . .
		Horticulture . . . . .
		Nutrition . . . . .
		Parasitology . . . . .
		Plant science . . . . .

Departmental title	Doctorate departments	Area, field of science, and departmental title	Doctorate departments
		Statistics, total . . . . .	40
.....	1	Applied statistics . . . . .	1
.....	1	Biostatistics . . . . .	3
.....	1	Mathematical statistics . . . . .	1
.....		Statistics . . . . .	34
.....	20	Statistics and computer science . . . . .	1
.....	1	Life sciences . . . . .	924
.....	4		
.....	3	Agricultural, total . . . . .	202
.....	11		
.....	1	Agricultural chemistry . . . . .	3
.....		Agronomy . . . . .	20
.....	170	Agronomy and genetics . . . . .	1
.....		Animal diseases . . . . .	1
.....	1	Animal husbandry . . . . .	2
.....	4	Animal industry . . . . .	1
.....	2	Animal nutrition . . . . .	1
.....	1	Animal science . . . . .	24
.....	1	Crop and soil science . . . . .	1
.....	1	Dairy science . . . . .	3
.....	1	Entomology . . . . .	26
.....	141	Entomology and parasitology . . . . .	2
.....	16	Farm crops . . . . .	1
.....	1	Floriculture . . . . .	1
.....	1	Food science . . . . .	7
.....		Food science and technology . . . . .	7
.....	214	Food technology . . . . .	1
.....		Food and nutrition . . . . .	6
.....	35	Forest chemistry . . . . .	1
.....		Forest economics . . . . .	1
.....	6	Forest entomology . . . . .	1
er science . . . . .	2	Forest management . . . . .	2
.....	27	Forest resources . . . . .	6
.....		Forestry . . . . .	13
.....	139	Forestry and horticulture . . . . .	1
.....		Horticulture . . . . .	14
.....	1	Nutrition . . . . .	10
.....	131	Parasitology . . . . .	2
.....	1	Plant science . . . . .	8
.....	6		

Table A.3. — Continued

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title
<b>Agricultural — Cont.</b>		<b>Biology . . . . .</b>
Plant and soil science . . . . .	4	Biomedical science . . . . .
Poultry . . . . .	1	Cellular biology . . . . .
Poultry science . . . . .	7	Development biology . . . . .
Range science . . . . .	3	Evolutionary biology . . . . .
Recreation and parks . . . . .	1	Experimental biology . . . . .
Resource development . . . . .	1	Molecular biology . . . . .
Silviculture . . . . .	1	Population and environment . . . . .
Soil science . . . . .	4	<b>Botany, total . . . . .</b>
Soil and water science . . . . .	1	Botanical science . . . . .
Soils . . . . .	3	Botany . . . . .
Soils and meteorology . . . . .	1	Botany and microbiology . . . . .
Vegetable crops . . . . .	2	Botany and plant pathology . . . . .
Water resources administration . . . . .	1	Plant pathology . . . . .
Watershed management . . . . .	2	Plant physiology . . . . .
Wildlife . . . . .	2	<b>Microbiology, total . . . . .</b>
Wildlife management . . . . .	1	Bacteriology . . . . .
<b>Biochemistry, total . . . . .</b>	<b>121</b>	Cell physiology . . . . .
Agricultural biochemistry . . . . .	2	Medical microbiology . . . . .
Agricultural biochemistry and nutrition . . . . .	1	Microbiology . . . . .
Biochemical science . . . . .	1	Virology . . . . .
Biochemistry . . . . .	74	<b>Pharmacology, total . . . . .</b>
Biochemistry and biophysics . . . . .	6	Biochemical pharmacology . . . . .
Biochemistry and nutrition . . . . .	3	Biopharmaceutical sciences . . . . .
Biological chemistry . . . . .	7	Chemistry and pharmacology . . . . .
Biophysical science . . . . .	2	Medicinal chemistry . . . . .
Biophysics . . . . .	14	Pharmaceutical chemistry . . . . .
Biophysics and microbiology . . . . .	2	Pharmaceutics . . . . .
Comparative biochemistry . . . . .	1	Pharmacognosy . . . . .
Medical physics . . . . .	1	Pharmacology . . . . .
Molecular biophysics and biochemistry . . . . .	1	Pharmacology and toxicology . . . . .
Radiation biology . . . . .	3	Pharmacy . . . . .
Radiation biology and biophysics . . . . .	1	
Radiation biophysics . . . . .	1	
Radiology science . . . . .	1	
<b>Biology, total . . . . .</b>	<b>127</b>	<b>Physiology, total . . . . .</b>
Biological science . . . . .	22	Animal physiology . . . . .
Biological structure . . . . .	2	Medical physiology . . . . .

Department title	Doctorate departments	Area, field of science, and department title	Doctorate departments
		Biology . . . . .	83
		Biomedical science . . . . .	3
	4	Cellular biology . . . . .	5
	1	Development biology . . . . .	1
	7	Evolutionary biology . . . . .	1
	3	Experimental biology . . . . .	1
	1	Molecular biology . . . . .	8
	1	Population and environmental biology . . . . .	1
	1		
	4	Botany, total. . . . .	71
	1		
	3	Botanical science . . . . .	1
	1	Botany . . . . .	38
	2	Botany and microbiology . . . . .	4
ion . . . . .	1	Botany and plant pathology . . . . .	7
	2	Plant pathology . . . . .	17
	2	Plant physiology . . . . .	4
	1		
	121	Microbiology, total . . . . .	89
	2	Bacteriology . . . . .	7
nd nutrition . . . . .	1	Cell physiology . . . . .	1
	1	Medical microbiology . . . . .	7
	74	Microbiology . . . . .	73
	6	Virology . . . . .	1
	3		
	7	Pharmacology, total . . . . .	80
	2		
	14	Biochemical pharmacology . . . . .	1
	2	Biopharmaceutical sciences . . . . .	1
	1	Chemistry and pharmaceutical chemistry . . . . .	1
	1	Medicinal chemistry . . . . .	5
biochemistry . . . . .	1	Pharmaceutical chemistry . . . . .	6
	3	Pharmaceutics . . . . .	4
	1	Pharmacognosy . . . . .	1
ysics . . . . .	1	Pharmacology . . . . .	45
	1	Pharmacology and toxicology . . . . .	3
	1	Pharmacy . . . . .	13
	127	Physiology, total . . . . .	62
	22	Animal physiology . . . . .	2
	2	Medical physiology . . . . .	1

Table A-3. — Continued

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title
Physiology — Cont.		Psychobiology . . . . .
Physiological chemistry . . . . .	1	Public Health . . . . .
Physiological optics . . . . .	2	Science . . . . .
Physiological science . . . . .	1	Science education . . . . .
Physiology . . . . .	37	Toxicology . . . . .
Physiology and anatomy . . . . .	2	Tropical medicine . . . . .
Physiology and biophysics . . . . .	12	Veterinary medicine . . . . .
Physiology and pharmacology . . . . .	4	Veterinary science . . . . .
Zoology, total . . . . .	58	Psychology . . . . .
Economic zoology . . . . .	1	Psychology, total . . . . .
Fish and wildlife . . . . .	3	Child development . . . . .
Fisheries . . . . .	2	Child studies . . . . .
Forest zoology . . . . .	1	Educational psychology . . . . .
Zoology . . . . .	44	Experimental psychology . . . . .
Zoology and entomology . . . . .	4	Experimental social psychology . . . . .
Zoology and physiology . . . . .	3	Human development . . . . .
Other life sciences, total . . . . .	114	Psychiatry and neurology . . . . .
Anatomy . . . . .	39	Psychology . . . . .
Animal genetics . . . . .	1	Psychology and education . . . . .
Audiology . . . . .	2	Social psychology . . . . .
Bacteriology and public health . . . . .	1	Social sciences . . . . .
Biobehavioral science . . . . .	1	Agricultural economics, total . . . . .
Biometrics . . . . .	2	Agricultural economics . . . . .
Ecology . . . . .	7	Agricultural economics and ecology . . . . .
Endocrinology . . . . .	1	Agricultural economics and sociology . . . . .
Environmental health . . . . .	2	Anthropology, total . . . . .
General science . . . . .	2	Economics, total . . . . .
Genetics . . . . .	19	Economics . . . . .
Health and physical education . . . . .	2	Economics and business administration . . . . .
Immunology . . . . .	3	Industrial relations . . . . .
Medical sciences . . . . .	1	Mineral economics . . . . .
Medicine . . . . .	1	Political economy . . . . .
Natural resources . . . . .	2	
Neurobiology . . . . .	2	
Neurosciences . . . . .	2	
Pathology . . . . .	14	
Planetary and space science . . . . .	1	



Area, field of science, and department title	Doctorate departments	Area, field of science, and department title	Doctorate departments
		Psychobiology . . . . .	1
		Public Health . . . . .	2
Psychology . . . . .	1	Science . . . . .	1
	2	Science education . . . . .	1
	1	Toxicology . . . . .	1
	37	Tropical medicine . . . . .	1
Psychology . . . . .	2	Veterinary medicine . . . . .	1
Psychology . . . . .	12	Veterinary science . . . . .	1
Psychology . . . . .	4		
	58	Psychology . . . . .	147
	1	Psychology, total . . . . .	147
	3		
	2	Child development . . . . .	2
	1	Child studies . . . . .	1
	44	Educational psychology . . . . .	1
Psychology . . . . .	4	Experimental psychology . . . . .	1
Psychology . . . . .	3	Experimental social psychology . . . . .	1
	114	Human development . . . . .	3
	39	Psychiatry and neurology . . . . .	1
	1	Psychology . . . . .	135
	2	Psychology and education . . . . .	1
Public health . . . . .	1	Social psychology . . . . .	1
Psychology . . . . .	1		
	2	Social sciences . . . . .	517
	7	Agricultural economics, total . . . . .	17
	1		
	2	Agricultural economics . . . . .	13
	19	Agricultural economics and economics . . . . .	1
Education . . . . .	2	Agricultural economics and sociology . . . . .	3
	3		
	1	Anthropology, total . . . . .	60
	1		
	2	Economics, total . . . . .	109
	2		
	2	Economics . . . . .	101
	14	Economics and business administration . . . . .	3
Science . . . . .	1	Industrial relations . . . . .	2
		Mineral economics . . . . .	1
		Political economy . . . . .	2

Table A-3. — Continued

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title
Geography, total . . . . .	42	Sociology, total . . . . .
Geography . . . . .	41	City planning . . . . .
Geography and anthropology . . . . .	1	Criminology . . . . .
History and philosophy of science, total . . . . .	33	Demography . . . . .
History . . . . .	1	Development sociology . . . . .
History and philosophy of science . . . . .	6	Family life . . . . .
History of science . . . . .	8	Folklore . . . . .
History of science and medicine . . . . .	1	International service . . . . .
Logic and methodology of science . . . . .	1	Labor and industrial relations . . . . .
Philosophy . . . . .	13	Leadership and human behavior . . . . .
Philosophy of science . . . . .	3	Regional plan . . . . .
Linguistics, total . . . . .	58	Regional science . . . . .
Communication . . . . .	3	Rural sociology . . . . .
Information science . . . . .	5	Social relations . . . . .
Interpersonal communication . . . . .	1	Social sciences . . . . .
Journalism . . . . .	1	Sociology . . . . .
Linguistics . . . . .	34	Urban planning . . . . .
Mass communications . . . . .	1	
Psycholinguistics . . . . .	2	Sociology and anthropology, total . . . . .
Sensory communication . . . . .	1	
Speech . . . . .	7	
Speech and pathology . . . . .	3	
Political science, total . . . . .	92	
Government . . . . .	11	
Government and foreign affairs . . . . .	1	
International relations . . . . .	2	
International studies . . . . .	2	
Political science . . . . .	70	
Politics . . . . .	4	
Public administration . . . . .	1	
Public affairs . . . . .	1	

and department title	Doctorate departments	Area, field of science, and department title	Doctorate departments
.....	42	Sociology, total . . . . .	93
.....	41	City planning . . . . .	1
ogy . . . . .	1	Criminology . . . . .	2
ce, total . . . . .	33	Demography . . . . .	1
.....	1	Development sociology . . . . .	1
f science . . . . .	6	Family life . . . . .	1
.....	8	Folklore . . . . .	1
edicine . . . . .	1	International service . . . . .	1
f science . . . . .	1	Labor and industrial relations . . . . .	1
.....	13	Leadership and human behavior . . . . .	1
.....	3	Regional plan . . . . .	1
.....	58	Regional science . . . . .	1
.....	3	Rural sociology . . . . .	1
.....	5	Social relations . . . . .	1
ion . . . . .	1	Social sciences . . . . .	1
.....	1	Sociology . . . . .	74
.....	34	Urban planning . . . . .	4
.....	1	Sociology and anthropology, total . . . . .	13
.....	2		
.....	1		
.....	7		
.....	3		
.....	92		
.....	11		
fairs . . . . .	1		
.....	2		
.....	2		
.....	70		
.....	4		
.....	1		
.....	1		

Table A-4. — Comparison of matched sectorate departments, 1969-71, with departments reporting for 1971, by area and field of science

Area of field of science	Departments reporting for 1971	Departments reporting for 3 years, 1969-71	Percent of total
Total	2,990	2,579	86.3
Engineering	664	596	89.8
Aeronautical	33	26	78.8
Agricultural	24	22	91.7
Chemical	92	89	96.7
Civil	88	78	88.6
Electrical	108	105	97.2
Engineering science	40	37	92.5
Industrial	53	47	88.7
Mechanical	102	88	86.3
Metallurgical	49	44	89.8
Mining	9	3	33.3
Nuclear	26	25	96.2
Petroleum	6	6	100.0
Other engineering	34	26	76.5
Physical sciences	524	487	92.9
Astronomy	23	22	95.7
Atmospheric sciences	21	17	81.0
Chemistry	183	178	97.3
Geosciences	107	91	85.0
Oceanography	20	19	95.0
Physics	170	160	94.1
Mathematical sciences	214	189	88.3
Applied mathematics	35	26	74.3
Mathematics	139	131	94.2
Statistics	40	32	80.0
Life sciences	924	735	79.5
Agricultural	202	164	81.2
Biochemistry	121	95	78.5
Biology	127	16	83.5
Botany	71	63	88.7
Microbiology	89	71	79.8
Pharmacology	80	57	71.3
Physiology	62	51	82.3
Zoology	58	52	89.7
Other life sciences	114	76	66.7

Industrial . . . . .	53	47	88.7
Mechanical . . . . .	102	88	86.3
Metallurgical . . . . .	49	44	89.8
Mining . . . . .	9	3	33.3
Nuclear . . . . .	26	25	96.2
Petroleum . . . . .	6	6	100.0
Other engineering . . . . .	34	26	76.5
Physical sciences . . . . .	524	487	92.9
Astronomy . . . . .	23	22	95.7
Atmospheric sciences . . . . .	21	17	81.0
Chemistry . . . . .	183	178	97.3
Geosciences . . . . .	107	91	85.0
Oceanography . . . . .	20	19	95.0
Physics . . . . .	170	160	94.1
Mathematical sciences . . . . .	214	189	88.3
Applied mathematics . . . . .	35	26	74.3
Mathematics . . . . .	139	131	94.2
Statistics . . . . .	40	32	80.0
Life sciences . . . . .	924	735	79.5
Agricultural . . . . .	202	164	81.2
Biochemistry . . . . .	121	95	78.5
Biology . . . . .	127	106	83.5
Botany . . . . .	71	63	88.7
Microbiology . . . . .	89	71	79.8
Pharmacology . . . . .	80	57	71.3
Physiology . . . . .	62	51	82.3
Zoology . . . . .	58	52	89.7
Other life sciences . . . . .	114	76	66.7
Psychology . . . . .	147	128	87.1
Social sciences . . . . .	517	444	85.9
Agricultural economics . . . . .	17	15	88.2
Anthropology . . . . .	60	53	88.3
Economics . . . . .	109	99	90.8
Geography . . . . .	42	40	95.2
History and philosophy of science . . . . .	33	28	84.8
Linguistics . . . . .	58	48	82.8
Political science . . . . .	92	85	92.4
Sociology . . . . .	93	70	75.3
Sociology & anthropology . . . . .	13	6	46.2

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## APPENDIX B

### Classification of Institutions Participating in Graduate Traineeship Program<sup>1</sup>

<sup>1</sup>The 224 science doctorate institutions listed here may differ from similar listings published elsewhere for the following principal reasons: (1) Differences in classifying branches, affiliates, or other organizational components of University systems; (2) variations in definitions of science and engineering fields; (3) differences in the time period covered by the classification (e.g. single year or longer period); and (4) differences in classifications based on level of degree offered or level of degree granted respectively, in a particular period. Symbols behind each name refer to the following classifications: 1) "First 20" refer to institutions chosen most frequently by NSF Fellows from 1968 through 1971; 2) D—"Developing" institutions, those which granted science Ph.D.'s after 1960-61; 3) M—"Medical Schools"; 4) I—"Intermediate", all remaining applicants for traineeships.



## APPENDIX B

### Institutions Participating in Graduate Traineeship Program<sup>1</sup>

The institutions participating in the Graduate Traineeship Program have been classified as follows:

- (1) "First 20." These institutions were selected by the most number of NSF Fellows during the period 1968-71. The NSF Graduate Fellowship Program awards its stipends to individuals who then select which graduate institutions they wish to attend. On the basis of this selection process, the number of Fellows in each year was totaled and the institutions were then placed in rank order. These same 20 institutions have been selected by the most number of NSF Fellows for each year since 1969.
- (2) Developing. The 65 institutions that began awarding science Ph.D.'s in academic year 1960-61 were considered to be developing graduate institutions for this report. Data for this comparison were provided by the Office of Education.
- (3) Medical. Only 12 medical schools, representing 129 students in 1971, applied for NSF traineeships, and thus the medical school category was not considered sufficiently representative for this analysis. The new survey of fall 1972 graduate student support will include approximately 70 medical schools that submitted data separately from a parent institution, and these data will be analyzed more extensively in a study of their first-year enrollment.
- (4) Intermediate. All the remaining schools that supplied data for 1971 were termed "Intermediate."

<sup>1</sup> may differ from similar listings published in classifying branches, affiliates, or other institutions in definitions of science and engineering classification (e.g. single year or longer of degree offered or level of degree granted) same refer to the following classifications: 1) by NSF Fellows from 1968 through 1971; 2) science Ph.D.'s after 1960-61; 3) M—"Medical traineeships."

#### ALABAMA

Auburn University—I  
University of Alabama—I

#### ALASKA

University of Alaska—I

#### ARIZONA

Arizona State University—D  
University of Arizona—I

#### ARKANSAS

University of Arkansas—I

#### CALIFORNIA

California Institute of Technology—First 20  
Claremont Graduate School and University  
Center—I  
Loma Linda University—D  
Stanford University—First 20  
University of California, Berkeley—First 20  
University of California, Davis—I  
University of California, Irvine—I  
University of California, Los Angeles—First 20  
University of California, Riverside—D  
University of California, San Diego—First 20  
University of California, San Francisco—I  
University of California, Santa Barbara—D  
University of California, Santa Cruz—D  
University of the Pacific—D  
University of Santa Clara—D  
University of Southern California—I  
U.S. International University—D

#### COLORADO

Colorado School of Mines—I  
Colorado State University—I  
University of Colorado—I  
University of Denver—I

#### CONNECTICUT

University of Connecticut—I  
Wesleyan University—D  
Yale University—First 20

#### DELAWARE

University of Delaware—I

#### DISTRICT OF COLUMBIA

American University—I  
Catholic University—I  
George Washington University—I  
Georgetown University—I  
Howard University—I

#### FLORIDA

Florida State University—I  
Nova University—D  
University of Florida—I  
University of Miami—I  
University of South Florida—D

#### GEORGIA

Atlanta University—D  
Emory University—I  
Georgia Institute of Technology—I  
Georgia State University—D  
Medical College of Georgia—M  
University of Georgia—I

#### HAWAII

University of Hawaii—I

#### IDAHO

University of Idaho—D

#### ILLINOIS

DePaul University—D  
Illinois Institute of Technology—I  
Illinois State University—D  
Loyola University—I  
Northern Illinois University—D  
Northwestern University—I  
Southern Illinois University—I  
University of Chicago—First 20  
University of Illinois, Chicago Circle—D  
University of Illinois, Urbana—First 20  
University of Illinois Medical Center—M

#### INDIANA

Indiana University—I  
Indiana University—D  
University of Notre Dame—I

#### IOWA

Iowa State University—I  
University of Iowa—I

Kansas State U  
University of K

University of K  
University of L

Louisiana Tech  
Louisiana State  
Louisiana State  
Louisiana State  
New Orleans  
Loyola Univers  
Tulane Univers

University of M

Johns Hopkins  
University of M

Boston College  
Boston Univers  
Brandeis Unive  
Clark Universit  
Harvard Univer  
Lowell Techno  
Massachusetts  
Northeastern U  
Tufts Universit  
University of M  
Worcester Poly

Michigan State  
Michigan Techn  
University of D  
University of M  
Wayne State U  
Western Michigan

University of M

(See footnote on page 33 for explanation of symbols.)

#### DISTRICT OF COLUMBIA

American University—I  
Catholic University—I  
George Washington University—I  
Georgetown University—I  
Howard University—I

#### FLORIDA

Florida State University—I  
Nova University—D  
University of Florida—I  
University of Miami—I  
University of South Florida—D

#### GEORGIA

Atlanta University—D  
Emory University—I  
Georgia Institute of Technology—I  
Georgia State University—D  
Medical College of Georgia—M  
University of Georgia—I

#### HAWAII

University of Hawaii—I

#### IDAHO

University of Idaho—D

#### ILLINOIS

DePaul University—D  
Illinois Institute of Technology—I  
Illinois State University—D  
Loyola University—I  
Northern Illinois University—D  
Northwestern University—I  
Southern Illinois University—I  
University of Chicago—First 20  
University of Illinois, Chicago Circle—D  
University of Illinois, Urbana—First 20  
University of Illinois Medical Center—M

#### INDIANA

Indiana University—I  
Purdue University—I  
University of Notre Dame—I

#### IOWA

Iowa State University—I  
University of Iowa—I

#### KANSAS

Kansas State University—I  
University of Kansas—I

#### KENTUCKY

University of Kentucky—I  
University of Louisville—I

#### LOUISIANA

Louisiana Technological University—D  
Louisiana State University, Baton Rouge—I  
Louisiana State University, New Orleans—D  
Louisiana State University Medical Center,  
New Orleans—M  
Loyola University—D  
Tulane University—I

#### MAINE

University of Maine—I

#### MARYLAND

Johns Hopkins University—First 20  
University of Maryland—I

#### MASSACHUSETTS

Boston College—I  
Boston University—I  
Brandeis University—I  
Clark University—I  
Harvard University—First 20  
Lowell Technological Institute—D  
Massachusetts Institute of Technology—First 20  
Northeastern University—D  
Tufts University—I  
University of Massachusetts—I  
Worcester Polytechnic Institute—D

#### MICHIGAN

Michigan State University—I  
Michigan Technological University—D  
University of Detroit—D  
University of Michigan—First 20  
Wayne State University—I  
Western Michigan University—D

#### MINNESOTA

University of Minnesota—I

#### MISSISSIPPI

Mississippi State University—I  
University of Mississippi—I  
University of Southern Mississippi—D

#### MISSOURI

St. Louis University—I  
University of Missouri, Columbia—I  
University of Missouri, Kansas City—D  
University of Missouri, Rolla—I  
Washington University—I

#### MONTANA

Montana State University—I  
University of Montana—D

#### NEBRASKA

University of Nebraska—I

#### NEVADA

University of Nevada—D

#### NEW HAMPSHIRE

Dartmouth College—D  
University of New Hampshire—I

#### NEW JERSEY

Newark College of Engineering—D  
Princeton University—First 20  
Rutgers, The State University—I  
Seton Hall University—D  
Stevens Institute of Technology—I

#### NEW MEXICO

New Mexico Institute of Mining and Technology—D  
New Mexico State University—I  
University of New Mexico—I

#### NEW YORK

Adelphi University—I  
Alfred University—I  
City University of New York—D  
Clarkson College of Technology—D  
Columbia University—First 20  
Cooper Union—D

Cornell University—First 20

Fordham University—I

New School of Social Research—I

New York Medical College—M

New York University—I

Polytechnic Institute of Brooklyn—I

Rensselaer Polytechnic Institute—I

Rockefeller University—First 20

St. Bonaventure University—I

St. Johns University—I

State University of New York at Albany—D

State University of New York at Binghamton—D

State University of New York at Buffalo—D

State University of New York, College of Forestry at  
Syracuse—I

State University of New York Downstate Medical  
Center—M

State University of New York, Stony Brook—D

State University of New York, Upstate Medical  
Center—M

Syracuse University—I

Union College and University—I

University of Rochester—I

Yeshiva University—I

#### NORTH CAROLINA

Duke University—I

University of North Carolina, Chapel Hill—I

University of North Carolina, North Carolina State  
University, Raleigh—I

Wake Forest University—D

#### NORTH DAKOTA

North Dakota State University—D

University of North Dakota—I

#### OHIO

Bowling Green State University—D

Case—Western Reserve University—I

Kent State University—D

Miami University—D

Ohio State University—I

Ohio University—I

University of Akron—I

University of Cincinnati—I

University of Dayton—D

University of Toledo—D

Oklahoma State U  
University of Okla

Oregon Graduate  
Oregon State Univ  
Portland State Un  
University of Oreg  
University of Port

Bryn Mawr College  
Carnegie-Mellon U  
Drexel University  
Duquesne Univers  
Hahnemann Medic  
Lehigh University  
The Medical Colle  
Pennsylvania State  
Philadelphia Colle  
Temple University  
Thomas Jefferson  
University of Penn  
University of Pitts  
Villanova Universi

Brown University—  
Providence College  
University of Rhod

Clemson University  
Medical University  
University of Sout

South Dakota Scho  
South Dakota Stat  
University of Sout

George Peabody Co  
Memphis State Uni  
University of Tenn  
University of Tenn  
Vanderbilt Univers

(See footnote on page 33 for explanation of symbols.)

Cornell University—First 20  
 Fordham University—I  
 New School of Social Research—I  
 New York Medical College—M  
 New York University—I  
 Polytechnic Institute of Brooklyn—I  
 Fensselaer Polytechnic Institute—I  
 Rockefeller University—First 20  
 St. Bonaventure University—I  
 St. Johns University—I  
 State University of New York at Albany—D  
 State University of New York at Binghamton—D  
 State University of New York at Buffalo—D  
 State University of New York, College of Forestry at  
 Syracuse—I  
 State University of New York Downstate Medical  
 Center—M  
 State University of New York, Stony Brook—D  
 State University of New York, Upstate Medical  
 Center—M  
 Syracuse University—I  
 Union College and University—I  
 University of Rochester—I  
 Yeshiva University—I

#### NORTH CAROLINA

Duke University—I  
 University of North Carolina, Chapel Hill—I  
 University of North Carolina, North Carolina State  
 University, Raleigh—I  
 Wake Forest University—D

#### NORTH DAKOTA

North Dakota State University—D  
 University of North Dakota—I

#### OHIO

Bowling Green State University—D  
 Case—Western Reserve University—I  
 Kent State University—D  
 Miami University—D  
 Ohio State University—I  
 Ohio University—I  
 University of Akron—I  
 University of Cincinnati—I  
 University of Dayton—D  
 University of Toledo—D

#### OKLAHOMA

Oklahoma State University—I  
 University of Oklahoma—I

#### OREGON

Oregon Graduate Center—D  
 Oregon State University—I  
 Portland State University—D  
 University of Oregon—I  
 University of Portland—I

#### PENNSYLVANIA

Bryn Mawr College—I  
 Carnegie-Mellon University—I  
 Drexel University—D  
 Duquesne University—I  
 Hahnemann Medical College and Hospital—M  
 Lehigh University—I  
 The Medical College of Pennsylvania—M  
 Pennsylvania State University—I  
 Philadelphia College of Pharmacy and Science—I  
 Temple University—I  
 Thomas Jefferson University—M  
 University of Pennsylvania—First 20  
 University of Pittsburgh—I  
 Villanova University—D

#### RHODE ISLAND

Brown University—I  
 Providence College—D  
 University of Rhode Island—I

#### SOUTH CAROLINA

Clemson University—D  
 Medical University of South Carolina—M  
 University of South Carolina—I

#### SOUTH DAKOTA

South Dakota School of Mines and Technology—D  
 South Dakota State University—I  
 University of South Dakota—I

#### TENNESSEE

George Peabody College—I  
 Memphis State University—D  
 University of Tennessee, Knoxville—I  
 University of Tennessee, Memphis—I  
 Vanderbilt University—I

#### TEXAS

Baylor University—I  
Baylor College of Medicine, Houston—M  
North Texas State University—D  
Rice University—First 20  
Southern Methodist University—D  
Texas A&M University—I  
Texas Christian University—D  
Texas Tech University—I  
Texas Woman's University—D  
University of Houston—I  
University of Texas, Arlington—D  
University of Texas, Austin—I

#### UTAH

Brigham Young University—I  
University of Utah—I  
Utah State University—I

#### VERMONT

University of Vermont—D

#### VIRGINIA

College of William and Mary—D  
University of Virginia—I  
Virginia Commonwealth University—M  
Virginia Polytechnic Institute—I

#### WASHINGTON

University of Washington—First 20  
Washington State University—

#### WEST VIRGINIA

West Virginia University—I

#### WISCONSIN

Institute of Paper Chemistry (Lawrence  
University)—I  
Marquette University—I  
University of Wisconsin, Madison—First 20  
University of Wisconsin, Milwaukee—I

#### WYOMING

University of Wyoming—I

(See footnote on page 33 for explanation of symbols.)



# APPENDIX C

## Statistical Tables

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TABLE C-1. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND ENROLLMENT STATUS, 1971

AREA AND FIELD OF SCIENCE	TOTAL		FULL TIME		PART TIME	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	182,001	100.0	142,169	78.1	39,832	21.9
ENGINEERING.....	48,410	26.6	30,902	63.8	17,508	36.2
AERONAUTICAL.....	1,742	1.0	1,355	77.8	387	22.2
AGRICULTURAL.....	518	.3	427	82.4	91	17.6
CHEMICAL.....	4,441	2.4	3,183	71.7	1,258	28.3
CIVIL.....	7,636	4.2	5,144	67.4	2,492	32.6
ELECTRICAL.....	13,822	7.6	7,380	53.4	6,442	46.6
ENGINEERING SCIENCE.....	1,432	.8	1,201	83.9	231	16.1
INDUSTRIAL.....	4,809	2.6	2,754	57.3	2,055	42.7
MECHANICAL.....	7,239	4.0	4,291	59.3	2,948	40.7
METALLURGICAL AND MATERIALS.....	2,205	1.2	1,717	77.9	488	22.1
MINING.....	305	.2	276	90.5	29	9.5
NUCLEAR.....	1,141	.6	898	77.3	263	22.7
PETROLEUM.....	218	.1	157	72.0	61	28.0
OTHER ENGINEERING.....	2,882	1.6	2,119	73.5	763	26.5
PHYSICAL SCIENCES.....	31,870	17.5	28,209	88.5	3,661	11.5
ASTRONOMY.....	565	.3	546	96.6	19	3.4
ATMOSPHERIC SCIENCES.....	879	.5	751	85.4	128	14.6
CHEMISTRY.....	13,990	7.7	12,404	88.7	1,586	11.3
GEOSCIENCES.....	4,210	2.3	3,788	90.0	422	10.0
OCEANOGRAPHY.....	1,119	.6	1,020	91.2	99	8.8
PHYSICS.....	11,107	6.1	9,700	87.3	1,407	12.7
MATHEMATICAL SCIENCES.....	15,499	8.5	11,816	76.2	3,683	23.8
APPLIED MATHEMATICS.....	2,916	1.6	2,123	72.8	793	27.2
MATHEMATICS.....	11,075	6.1	8,481	76.6	2,594	23.4
STATISTICS.....	1,508	.8	1,212	80.4	296	19.6
LIFE SCIENCES.....	32,282	17.7	28,888	89.5	3,394	10.5
AGRICULTURE.....	7,202	4.0	6,307	87.6	895	12.4
BIOCHEMISTRY.....	3,262	1.8	3,073	94.2	189	5.8
BIOLOGY.....	7,613	4.2	6,733	88.4	880	11.6
BOTANY.....	2,317	1.3	2,105	90.9	212	9.1
MICROBIOLOGY.....	2,271	1.2	2,069	91.1	202	8.9
PHARMACOLOGY.....	1,471	.8	1,292	87.8	179	12.2
PHYSIOLOGY.....	1,410	.8	1,297	92.0	113	8.0
ZOOLOGY.....	4,090	2.2	3,792	92.7	298	7.3
OTHER LIFE SCIENCES.....	2,646	1.5	2,220	83.9	426	16.1
PSYCHOLOGY.....	14,613	8.0	12,781	87.5	1,832	12.5
SOCIAL SCIENCES.....	39,327	21.6	29,573	75.2	9,754	24.8
AGRICULTURAL ECONOMICS.....	954	.5	835	87.5	119	12.5
ANTHROPOLOGY.....	3,799	2.1	3,383	89.0	416	11.0
ECONOMICS (EXCEPT AGRICULTURAL).....	8,729	4.8	6,912	79.2	1,817	20.8
GEOGRAPHY.....	1,799	1.0	1,625	90.3	174	9.7
HISTORY AND PHILOSOPHY OF SCIENCE.....	727	.4	659	90.6	68	9.4
LINGUISTICS.....	3,209	1.8	2,386	74.4	823	25.6
POLITICAL SCIENCE.....	10,968	6.0	7,091	64.7	3,877	35.3
SOCIOLOGY.....	7,984	4.4	5,775	74.8	2,009	25.2
SOCIOLOGY AND ANTHROPOLOGY.....	1,158	.6	707	61.1	451	38.9

TABLE C-2. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND CITIZENSHIP, 1971

AREA AND FIELD OF SCIENCE	TOTAL		U.S. CITIZENS		FOREIGN STUDENTS	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	182,001	100.0	149,044	81.9	32,957	18.1
ENGINEERING.....	48,410	26.6	34,835	72.0	13,575	28.0
AERONAUTICAL.....	1,742	1.0	1,297	74.5	445	25.5
AGRICULTURAL.....	518	.3	329	63.5	189	36.5
CHEMICAL.....	4,441	2.4	2,880	64.9	1,561	35.1
CIVIL.....	7,636	4.2	5,162	67.6	2,474	32.4
ELECTRICAL.....	13,822	7.6	10,431	75.5	3,391	24.5
ENGINEERING SCIENCE.....	1,432	.8	928	64.8	504	35.2
INDUSTRIAL.....	4,809	2.6	3,716	77.3	1,093	22.7
MECHANICAL.....	7,239	4.0	5,321	73.5	1,918	26.5
METALLURGICAL AND MATERIALS.....	2,205	1.2	1,488	67.5	717	32.5
MINING.....	305	.2	145	47.5	160	52.5
NUCLEAR.....	1,161	.6	888	76.5	273	23.5
PETROLEUM.....	218	.1	139	63.8	79	36.2
OTHER ENGINEERING.....	2,882	1.6	2,111	73.2	771	26.8
PHYSICAL SCIENCES.....	31,870	17.5	25,785	80.9	6,085	19.1
ASTRONOMY.....	565	.3	509	90.1	56	9.9
ATMOSPHERIC SCIENCES.....	879	.5	732	83.3	147	16.7
CHEMISTRY.....	13,990	7.7	11,277	80.6	2,713	19.4
GEOSCIENCES.....	4,210	2.3	3,619	86.0	591	14.0
OCEANOGRAPHY.....	1,119	.6	1,009	90.2	110	9.8
PHYSICS.....	11,107	6.1	8,639	77.8	2,468	22.2
MATHEMATICAL SCIENCES.....	15,499	8.5	12,938	83.5	2,561	16.5
APP' ED MATHEMATICS.....	2,916	1.6	2,389	81.9	527	18.1
MAT. EMATICS.....	11,075	6.1	9,503	85.8	1,572	14.2
STATISTICS.....	1,508	.8	1,046	69.4	462	30.6
LIFE SCIENCES.....	32,282	17.7	27,652	85.7	4,630	14.3
AGRICULTURE.....	7,202	4.0	5,421	75.3	1,781	24.7
BIOCHEMISTRY.....	3,262	1.8	2,707	83.0	555	17.0
BIOLOGY.....	7,613	4.2	6,972	91.6	641	8.4
BOTANY.....	2,317	1.3	1,898	81.9	419	18.1
MICROBIOLOGY.....	2,271	1.2	2,002	88.2	269	11.8
PHARMACOLOGY.....	1,471	.8	1,136	77.2	335	22.8
PHYSIOLOGY.....	1,410	.8	1,268	89.9	142	10.1
ZOOLOGY.....	4,090	2.2	3,853	94.2	237	5.8
OTHER LIFE SCIENCES.....	2,646	1.5	2,395	90.5	251	9.5
PSYCHOLOGY.....	14,613	8.0	14,032	96.0	581	4.0
SOCIAL SCIENCES.....	39,327	21.6	33,802	86.0	5,525	14.0
AGRICULTURAL ECONOMICS.....	954	.5	675	70.8	279	29.2
ANTHROPOLOGY.....	3,799	2.1	3,562	93.8	237	6.2
ECONOMICS (EXCEPT AGRICULTURAL).....	8,729	4.8	6,513	74.6	2,216	25.4
GEOGRAPHY.....	1,799	1.0	1,528	84.9	271	15.1
HISTORY AND PHILOSOPHY OF SCIENCE.....	727	.4	670	92.2	57	7.8
LINGUISTICS.....	3,209	1.8	2,754	85.8	455	14.2
POLITICAL SCIENCE.....	10,868	6.0	9,880	90.1	1,088	9.9
SOCIOLOGY.....	7,984	4.4	7,176	89.9	808	10.1
SOCIOLOGY AND ANTHROPOLOGY.....	1,158	.6	1,044	90.2	114	9.8

TABLE C-3. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, ENROLLMENT STATUS, AND CITIZENSHIP, 1971

AREA AND FIELD OF SCIENCE	FULL TIME				PART TIME			
	U.S. CITIZENS		FOREIGN STUDENTS		U.S. CITIZENS		FOREIGN STUDENTS	
	TOTAL	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	TOTAL	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	142,169	79.8	113,420	28,749	20.2	39,832	35,624	89.4
ENGINEERING.....	30,902	64.3	19,885	11,017	35.7	17,508	14,950	85.4
AERONAUTICAL.....	1,355	94.7	69.9	408	30.1	387	350	90.4
AGRICULTURAL.....	427	252	59.0	175	41.0	91	77	84.6
CHEMICAL.....	3,183	1,832	57.6	1,351	42.4	1,258	1,048	83.3
CIVIL.....	5,144	3,259	63.4	1,885	36.6	2,492	1,903	76.4
ELECTRICAL.....	7,380	4,847	65.7	2,533	34.3	6,442	5,584	86.7
ENGINEERING SCIENCE.....	1,201	718	59.8	40.2	231	210	90.9	9.1
INDUSTRIAL.....	2,754	1,913	69.5	841	30.5	2,055	1,803	87.7
MECHANICAL.....	4,291	2,722	63.4	1,569	36.6	2,948	2,599	88.2
METALLURGICAL AND MATERIALS.....	1,717	1,057	61.6	660	38.4	488	431	88.3
MINING.....	276	124	44.9	152	55.1	29	21	72.4
NUCLEAR.....	898	652	72.6	266	27.4	263	236	89.7
PETROLEUM.....	157	82	52.2	75	47.8	61	57	93.4
OTHER ENGINEERING.....	2,119	1,480	69.8	639	30.2	763	631	82.7
PHYSICAL SCIENCES.....	28,209	22,492	79.7	5,717	20.3	3,661	3,293	89.9
ASTRONOMY.....	546	490	89.7	56	10.3	19	19	100.0
ATMOSPHERIC SCIENCES.....	751	616	82.0	135	18.0	128	116	90.6
CHEMISTRY.....	12,404	9,911	79.9	2,493	20.1	1,586	1,366	86.1
GEOSCIENCES.....	3,788	3,221	85.0	567	15.0	422	398	94.3
OCEANOGRAPHY.....	1,020	919	90.1	101	9.9	99	90	90.9
PHYSICS.....	9,700	7,335	75.6	2,365	24.4	1,407	1,304	92.7
MATHEMATICAL SCIENCES.....	11,816	9,451	80.0	2,365	20.0	3,683	3,487	94.7
APPLIED MATHEMATICS.....	2,123	1,640	77.2	483	22.8	793	749	94.5
MATHEMATICS.....	8,481	7,030	82.9	1,451	17.1	2,594	2,473	95.3
STATISTICS.....	1,212	781	64.4	431	35.6	296	265	89.5
LIFE SCIENCES.....	28,688	24,487	84.8	4,401	15.2	3,394	3,165	93.3
AGRICULTURE.....	6,307	4,585	72.7	1,722	27.3	895	836	93.4
BIOCHEMISTRY.....	3,073	2,547	82.9	526	17.1	189	160	84.7
BIOLOGY.....	6,733	6,119	90.9	614	9.1	880	853	96.9
BOTANY.....	2,105	1,712	81.3	393	18.7	212	186	87.7
MICROBIOLOGY.....	2,069	1,814	87.7	255	12.3	202	188	93.1
PHARMACOLOGY.....	1,292	979	75.8	313	24.2	179	157	87.7
PHYSIOLOGY.....	1,297	1,170	90.2	127	9.8	113	98	86.7
ZOOLOGY.....	3,792	3,568	94.1	224	5.9	298	285	95.6
OTHER LIFE SCIENCES.....	2,220	1,993	89.8	227	10.2	426	402	94.4
PSYCHOLOGY.....	12,781	12,250	95.8	531	4.2	1,832	1,782	97.3
SOCIAL SCIENCES.....	29,573	24,855	84.0	4,718	16.0	9,754	8,947	91.7
AGRICULTURAL ECONOMICS.....	835	570	68.3	265	31.7	119	105	88.2
ANTHROPOLOGY.....	3,383	3,170	93.7	213	6.3	416	392	94.2
ECONOMICS (EXCEPT AGRICULTURAL).....	6,912	5,028	72.7	1,884	27.3	1,817	1,485	81.7
GEOGRAPHY.....	1,625	1,356	84.1	268	15.9	174	161	92.5
HISTORY AND PHILOSOPHY OF SCIENCE.....	659	604	91.7	55	8.3	68	66	97.1
LINGUISTICS.....	2,386	1,981	83.0	405	17.0	823	773	93.9
POLITICAL SCIENCE.....	7,091	6,212	87.6	879	12.4	3,877	3,668	94.6
PSYCHOLOGY.....	5,975	5,291	88.6	684	11.4	2,009	1,885	93.8
SOCIOLOGY AND ANTHROPOLOGY.....	707	632	89.4	75	10.6	451	412	91.4
SOCIOLOGY.....	707	632	89.4	75	10.6	451	412	91.4

TABLE C-4. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND LEVEL OF STUDY, 1971

AREA AND FIELD OF SCIENCE	TOTAL		FIRST YEAR		BEYOND FIRST YEAR	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	182,001	100.0	59,353	32.6	122,648	67.4
ENGINEERING.....	48,410	26.6	20,050	41.4	28,360	58.6
AERONAUTICAL.....	1,742	1.0	612	35.1	1,130	64.9
AGRICULTURAL.....	518	.3	186	35.9	332	64.1
CHEMICAL.....	4,441	2.4	1,438	32.4	3,003	67.6
CIVIL.....	7,636	4.2	3,824	50.1	3,812	49.9
ELECTRICAL.....	13,822	7.6	5,948	43.0	7,874	57.0
ENGINEERING SCIENCE.....	1,432	.8	341	23.8	1,091	76.2
INDUSTRIAL.....	4,809	2.6	2,346	48.8	2,463	51.2
MECHANICAL.....	7,239	4.0	3,239	44.7	4,000	55.3
METALLURGICAL AND MATERIALS.....	2,205	1.2	580	26.3	1,625	73.7
MINING.....	305	.2	102	33.4	203	66.6
NUCLEAR.....	1,161	.6	383	33.0	778	67.0
PETROLEUM.....	218	.1	69	31.7	149	68.3
OTHER ENGINEERING.....	2,882	1.6	982	34.1	1,900	65.9
PHYSICAL SCIENCES.....	31,870	17.5	7,896	24.8	23,974	75.2
ASTRONOMY.....	565	.3	117	20.7	448	79.3
ATMOSPHERIC SCIENCES.....	879	.5	287	32.7	592	67.3
CHEMISTRY.....	13,990	7.7	3,513	25.1	10,477	74.9
GEOSCIENCES.....	4,210	2.3	1,309	31.1	2,901	68.9
OCEANOGRAPHY.....	1,119	.6	331	29.6	788	70.4
PHYSICS.....	11,107	6.1	2,339	21.1	8,768	78.9
MATHEMATICAL SCIENCES.....	15,499	8.5	5,335	34.4	10,164	65.6
APPLIED MATHEMATICS.....	2,916	1.6	1,004	34.4	1,912	65.6
MATHEMATICS.....	11,075	6.1	3,859	34.8	7,216	65.2
STATISTICS.....	1,508	.8	472	31.3	1,036	68.7
LIFE SCIENCES.....	32,282	17.7	9,203	28.5	23,079	71.5
AGRICULTURE.....	7,202	4.0	2,226	30.9	4,976	69.1
BIOCHEMISTRY.....	3,262	1.8	774	23.7	2,488	76.3
BIOLOGY.....	7,613	4.2	2,116	27.8	5,497	72.2
BOTANY.....	2,317	1.3	540	23.3	1,777	76.7
MICROBIOLOGY.....	2,271	1.2	650	28.6	1,621	71.4
PHARMACOLOGY.....	1,471	.8	426	29.0	1,045	71.0
PHYSIOLOGY.....	1,410	.8	378	26.8	1,032	73.2
ZOOLOGY.....	4,090	2.2	1,262	30.9	2,828	69.1
OTHER LIFE SCIENCES.....	2,646	1.5	831	31.4	1,815	68.6
PSYCHOLOGY.....	14,613	8.0	3,937	26.9	10,676	73.1
SOCIAL SCIENCES.....	39,327	21.6	12,932	32.9	26,395	67.1
AGRICULTURAL ECONOMICS.....	954	.5	281	29.5	673	70.5
ANTHROPOLOGY.....	3,709	2.1	1,101	29.0	2,608	71.0
ECONOMICS (EXCEPT AGRICULTURAL).....	8,729	4.8	2,789	32.0	5,940	68.0
GEOGRAPHY.....	1,799	1.0	509	28.3	1,290	71.7
HISTORY AND PHILOSOPHY OF SCIENCE.....	727	.4	212	29.2	515	70.8
LINGUISTICS.....	3,209	1.8	1,143	35.6	2,066	64.4
POLITICAL SCIENCE.....	10,968	6.0	3,888	35.4	7,080	64.6
SOCIOLOGY.....	7,984	4.4	2,627	32.9	5,357	67.1
SOCIOLOGY AND ANTHROPOLOGY.....	1,158	.6	382	33.0	776	67.0

TABLE C-5. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, ENROLLMENT STATUS, AND LEVEL OF STUDY, 1971

AREA AND FIELD OF SCIENCE	FULL TIME				PART TIME			
	FIRST YEAR		BEYOND FIRST YEAR		FIRST YEAR		BEYOND FIRST YEAR	
	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	142,169	31.5	97,453	68.5	39,832	36.7	25,195	63.3
ENGINEERING.....	30,902	12.019	18,883	61.1	17,508	45.9	9,477	54.1
AERONAUTICAL.....	1,355	496	859	63.4	387	116	271	70.0
AGRICULTURAL.....	427	172	255	59.7	91	14	77	84.6
CHEMICAL.....	3,183	1,009	2,174	68.3	1,258	429	829	65.9
CIVIL.....	5,144	2,591	2,553	49.6	2,432	1,233	1,259	50.5
ELECTRICAL.....	7,380	2,861	4,519	61.2	2,442	3,087	3,355	52.1
ENGINEERING SCIENCE.....	1,201	265	936	77.9	231	76	155	67.1
INDUSTRIAL.....	2,754	1,220	1,534	55.7	2,055	1,126	929	45.2
MECHANICAL.....	4,291	1,754	2,537	59.1	2,948	1,485	1,463	49.6
METALLURGICAL AND MATERIALS.....	1,717	476	1,241	72.3	488	104	334	78.7
MINING.....	276	98	178	64.5	29	4	25	86.2
NUCLEAR.....	898	313	585	65.1	263	70	193	73.4
PETROLEUM.....	157	53	104	66.2	61	16	45	73.8
OTHER ENGINEERING.....	2,119	711	1,408	66.4	763	271	492	64.5
PHYSICAL SCIENCES.....	28,209	7,025	21,184	75.1	3,661	871	2,790	76.2
ASTRONOMY.....	546	114	432	79.1	19	3	16	84.2
ATMOSPHERIC SCIENCES.....	751	255	496	66.0	128	32	96	75.0
CHEMISTRY.....	12,404	3,011	9,393	75.7	1,586	502	1,084	68.3
GEOSCIENCES.....	3,788	1,247	2,541	67.1	422	62	360	85.3
OCEANOGRAPHY.....	1,020	298	722	70.8	99	33	66	66.7
PHYSICS.....	9,700	2,100	7,600	78.4	1,407	239	1,168	83.0
MATHEMATICAL SCIENCES.....	11,816	3,901	7,915	67.0	3,683	1,434	2,249	61.1
APPLIED MATHEMATICS.....	2,123	727	1,396	65.8	793	277	516	65.1
MATHEMATICS.....	8,481	2,816	5,665	66.8	2,594	1,043	1,551	59.8
STATISTICS.....	1,212	358	854	70.5	296	114	182	61.5
LIFE SCIENCES.....	28,888	8,376	20,512	71.0	3,394	827	2,567	75.6
AGRICULTURE.....	6,307	2,043	4,264	67.6	895	183	712	79.6
BIOCHEMISTRY.....	3,073	723	2,350	76.5	189	51	138	73.0
BIOLOGY.....	6,733	1,873	4,860	72.2	880	243	637	72.4
BOTANY.....	2,105	511	1,594	75.7	212	29	183	86.3
MICROBIOLOGY.....	2,069	601	1,468	71.0	202	49	153	75.7
PHARMACOLOGY.....	1,292	373	919	71.1	179	53	126	70.4
PHYSIOLOGY.....	1,297	350	947	73.0	113	28	85	75.2
ZOOLOGY.....	3,792	1,193	2,599	68.5	298	69	229	76.8
OTHER LIFE SCIENCES.....	2,220	709	1,511	68.1	426	122	304	71.4
PSYCHOLOGY.....	12,781	3,541	9,240	72.3	1,832	396	1,436	78.4
SOCIAL SCIENCES.....	29,573	9,854	19,719	66.7	9,754	3,078	6,676	68.4
AGRICULTURAL ECONOMICS.....	835	271	564	67.5	119	10	109	91.6
ANTHROPOLOGY.....	3,383	964	2,419	71.5	416	137	279	67.1
ECONOMICS (EXCEPT AGRICULTURAL).....	6,912	2,334	4,578	66.2	1,817	455	1,362	75.0
GEOGRAPHY.....	1,625	484	1,141	70.2	174	25	149	85.6
HISTORY AND PHILOSOPHY OF SCIENCE.....	659	199	460	69.8	68	13	55	80.9
LINGUISTICS.....	2,386	865	1,521	63.7	823	278	545	66.2
POLITICAL SCIENCE.....	7,091	2,434	4,657	65.7	3,877	1,454	2,423	62.5
SOCIOLOGY.....	5,975	2,006	3,969	66.4	2,009	621	1,388	69.1
SOCIOLOGY AND ANTHROPOLOGY.....	707	297	410	58.0	451	85	366	81.2

TABLE C-6. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND TYPE OF MAJOR SUPPORT, 1971

AREA AND FIELD OF SCIENCE	TOTAL		FELLOWSHIPS AND TRAINEESHIPS		RESEARCH ASSISTANTSHIPS		TEACHING ASSISTANTSHIPS		OTHER TYPES OF SUPPORT	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	142,169	100.0	36,103	25.4	29,668	20.9	35,140	24.7	41,258	29.0
ENGINEERING.....	30,902	21.7	6,787	22.0	9,086	29.4	4,367	14.1	10,662	34.5
AERONAUTICAL.....	1,355	1.0	250	18.5	571	42.1	168	12.4	366	27.0
AGRICULTURAL.....	427	.3	82	19.2	211	49.4	20	4.7	114	26.7
CHEMICAL.....	3,183	2.2	872	27.4	1,088	34.2	503	15.8	720	22.6
CIVIL.....	5,144	3.6	1,430	27.8	1,298	25.2	485	9.4	1,931	37.5
ELECTRICAL.....	7,380	5.2	1,234	16.7	1,895	25.7	1,392	18.9	2,859	38.7
ENGINEERING SCIENCE.....	1,201	.8	270	22.5	364	30.3	315	26.2	252	21.0
INDUSTRIAL.....	2,754	1.9	440	16.0	508	18.4	306	11.1	1,500	54.5
MECHANICAL.....	4,291	3.0	804	18.7	1,181	27.5	684	15.9	1,622	37.8
METALLURGICAL AND MATERIALS.....	1,717	1.2	305	17.8	940	54.7	180	10.5	292	17.0
MINING.....	276	.2	65	23.6	127	46.0	21	7.6	63	22.8
NUCLEAR.....	898	.6	305	34.0	235	26.2	86	9.6	272	30.3
PETROLEUM.....	157	.1	44	28.0	58	36.9	29	18.5	26	16.6
OTHER ENGINEERING.....	2,119	1.5	686	32.4	610	28.8	178	8.4	645	30.4
PHYSICAL SCIENCES.....	28,209	19.8	5,209	18.5	8,494	30.1	10,552	37.4	3,954	14.0
ASTRONOMY.....	546	.4	129	23.6	213	39.0	107	19.6	97	17.8
ATMOSPHERIC SCIENCES.....	751	.5	148	19.7	312	49.5	53	7.1	178	23.7
CHEMISTRY.....	12,404	8.7	2,338	18.8	3,198	25.8	5,769	46.5	1,099	8.9
GEOSCIENCES.....	3,788	2.7	704	18.6	853	22.5	1,190	31.4	1,041	27.5
OCEANOGRAPHY.....	1,020	.7	181	17.7	587	57.5	42	4.1	210	20.6
PHYSICS.....	9,700	6.8	1,709	17.6	3,271	33.7	3,391	35.0	1,329	13.7
MATHEMATICAL SCIENCES.....	11,816	8.3	2,220	18.8	1,072	9.1	5,207	44.1	3,317	28.1
APPLIED-MATHEMATICS.....	2,123	1.5	319	15.0	485	22.8	425	20.0	894	42.1
MATHEMATICS.....	8,481	6.0	1,500	17.7	388	4.6	4,491	53.0	2,102	24.8
STATISTICS.....	1,212	.9	401	33.1	199	16.4	291	24.0	321	26.5
LIFE SCIENCES.....	28,888	20.3	8,738	30.2	6,510	22.5	6,642	23.0	5,998	24.2
AGRICULTURE.....	6,307	4.4	1,262	20.0	2,902	46.0	414	6.6	1,729	27.4
BIOCHEMISTRY.....	3,073	2.2	1,454	47.3	787	25.0	427	13.9	425	13.8
BIOLOGY.....	6,733	4.7	2,093	31.1	618	9.2	2,107	31.3	1,915	28.4
BOTANY.....	2,105	1.5	352	16.7	565	26.9	770	36.6	438	20.8
MICROBIOLOGY.....	2,069	1.5	875	42.3	350	16.9	490	23.7	354	17.1
PHARMACOLOGY.....	1,292	.9	566	43.8	196	15.2	345	26.7	185	14.3
PHYSIOLOGY.....	1,297	.9	568	43.8	165	12.7	196	15.1	368	28.4
ZOOLOGY.....	3,792	2.7	688	18.1	633	16.7	1,485	39.2	986	26.0
OTHER LIFE SCIENCES.....	2,220	1.6	880	39.6	334	15.0	408	18.4	598	26.9
PSYCHOLOGY.....	12,781	9.0	4,470	35.0	1,738	13.6	2,608	20.4	3,965	31.0
SOCIAL SCIENCES.....	29,573	20.8	8,679	29.3	2,768	9.4	5,764	19.5	12,362	41.8
AGRICULTURAL ECONOMICS.....	835	.6	160	19.2	453	54.3	29	3.5	193	23.1
ANTHROPOLOGY.....	3,383	2.4	1,086	32.1	201	5.9	642	19.0	1,454	43.0
ECONOMICS (EXCEPT AGRICULTURAL).....	6,912	4.9	1,998	28.9	823	11.9	1,473	21.3	2,618	37.9
GEOGRAPHY.....	1,625	1.1	384	23.6	115	7.1	499	30.7	627	38.6
HISTORY AND PHILOSOPHY OF SCIENCE.....	659	.5	258	39.2	28	4.2	166	25.2	207	31.4
LINGUISTICS.....	2,386	1.7	741	31.1	135	5.7	431	18.1	1,079	45.2
POLITICAL SCIENCE.....	7,091	5.0	1,931	27.2	430	6.1	1,197	16.9	3,533	49.8
SOCIOLOGY.....	5,975	4.2	1,924	32.2	532	8.9	1,207	20.2	2,512	58.7
SOCIOLOGY AND ANTHROPOLOGY.....	707	.5	197	27.9	51	7.2	120	17.0	339	47.9



TABLE C-7. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY AREA OF SCIENCE, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1971

AREA OF SCIENCE	TOTAL	FELLOWSHIPS AND TRAINEESHIPS		RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL AREAS OF SCIENCE.....	142,169	36,103	29,668	35,140	41,258	
ENGINEERING.....	30,902	6,787	9,086	4,367	10,662	
PHYSICAL SCIENCES.....	28,209	5,209	8,494	3,954	3,954	
MATHEMATICAL SCIENCES.....	11,816	2,220	1,072	5,207	3,317	
LIFE SCIENCES.....	28,888	8,738	6,510	6,642	6,998	
PSYCHOLOGY.....	12,781	4,470	1,738	2,608	3,965	
SOCIAL SCIENCES.....	29,573	8,679	2,768	5,764	12,362	
U.S. CITIZENS, TOTAL.....	113,420	31,035	21,313	28,510	32,562	
ENGINEERING.....	19,885	5,514	2,758	6,457	8,696	
PHYSICAL SCIENCES.....	22,492	4,497	6,549	8,217	4,205	
MATHEMATICAL SCIENCES.....	9,451	1,906	710	3,229	725	
LIFE SCIENCES.....	24,487	7,757	5,037	4,270	752	
PSYCHOLOGY.....	12,250	4,359	1,609	5,822	1,127	
SOCIAL SCIENCES.....	24,855	7,002	2,252	2,466	149	
FOREIGN STUDENTS, TOTAL.....	28,749	5,068	8,355	6,630	1,738	
ENGINEERING.....	11,017	1,273	3,930	1,609		
PHYSICAL SCIENCES.....	5,717	712	1,945	2,335		
MATHEMATICAL SCIENCES.....	2,365	314	362	937		
LIFE SCIENCES.....	4,401	981	1,473	820		
PSYCHOLOGY.....	531	111	129	142		
SOCIAL SCIENCES.....	4,718	1,677	516	787		
PERCENT DISTRIBUTION						
TOTAL, ALL AREAS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0	
ENGINEERING.....	21.7	18.8	30.6	12.4	25.8	
PHYSICAL SCIENCES.....	19.8	14.4	28.6	30.0	9.6	
MATHEMATICAL SCIENCES.....	8.3	6.1	3.6	14.8	8.0	
LIFE SCIENCES.....	20.3	24.2	21.9	18.9	17.0	
PSYCHOLOGY.....	9.0	12.4	5.9	7.4	9.6	
SOCIAL SCIENCES.....	20.8	24.0	9.3	16.4	30.0	
U.S. CITIZENS, TOTAL.....	79.8	86.0	71.8	81.1	78.9	
ENGINEERING.....	14.0	15.3	17.4	7.8	15.7	
PHYSICAL SCIENCES.....	15.8	12.5	22.1	23.4	7.8	
MATHEMATICAL SCIENCES.....	6.6	5.3	2.4	12.2	6.2	
LIFE SCIENCES.....	17.2	17.5	17.0	16.6	14.2	
PSYCHOLOGY.....	8.6	12.1	5.4	7.0	9.2	
SOCIAL SCIENCES.....	17.5	19.4	7.6	14.2	25.8	
FOREIGN STUDENTS, TOTAL.....	20.2	14.0	28.2	18.9	21.1	
ENGINEERING.....	7.7	3.5	13.2	4.6	10.2	
PHYSICAL SCIENCES.....	4.0	2.0	6.6	6.6	1.8	
MATHEMATICAL SCIENCES.....	1.7	.9	1.2	2.7	1.8	
LIFE SCIENCES.....	3.1	2.7	5.3	2.3	2.7	
PSYCHOLOGY.....	.4	.3	.4	.4	.4	
SOCIAL SCIENCES.....	3.3	4.6	1.7	2.2	4.2	
PERCENT OF TOTAL						
TOTAL, ALL AREAS OF SCIENCE.....	100.0	25.4	20.6	24.7	25.3	
ENGINEERING.....	100.0	22.0	29.4	14.1	34.5	
PHYSICAL SCIENCES.....	100.0	18.5	30.1	37.4	14.0	
MATHEMATICAL SCIENCES.....	100.0	18.8	9.1	44.1	28.1	
LIFE SCIENCES.....	100.0	30.2	22.5	23.0	24.2	
PSYCHOLOGY.....	100.0	35.0	13.6	20.4	31.0	
SOCIAL SCIENCES.....	100.0	29.3	9.4	19.5	41.8	
U.S. CITIZENS, TOTAL.....	100.0	27.4	18.8	25.1	28.7	
ENGINEERING.....	100.0	27.7	25.9	13.9	32.5	
PHYSICAL SCIENCES.....	100.0	20.0	29.1	36.5	14.4	
MATHEMATICAL SCIENCES.....	100.0	20.2	7.5	45.2	27.1	
LIFE SCIENCES.....	100.0	31.7	20.6	23.8	24.0	
PSYCHOLOGY.....	100.0	35.6	13.1	20.1	31.2	
SOCIAL SCIENCES.....	100.0	28.2	9.1	20.0	42.7	
FOREIGN STUDENTS, TOTAL.....	100.0	17.6	29.1	23.1	30.2	
ENGINEERING.....	100.0	11.6	35.7	14.6	38.2	
PHYSICAL SCIENCES.....	100.0	12.5	34.0	40.8	12.7	
MATHEMATICAL SCIENCES.....	100.0	13.3	15.3	39.6	31.2	
LIFE SCIENCES.....	100.0	22.3	33.5	18.6	25.6	
PSYCHOLOGY.....	100.0	20.9	24.3	26.7	28.1	
SOCIAL SCIENCES.....	100.0	35.5	10.9	16.7	36.8	

TABLE C-8. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY AREA OF SCIENCE, LEVEL OF STUDY, AND TYPE OF MAJOR SUPPORT, 1971

AREA OF SCIENCE	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
<b>TOTAL, ALL AREAS OF SCIENCE.....</b>	<b>142,169</b>	<b>36,103</b>	<b>29,668</b>	<b>35,140</b>	<b>41,258</b>
ENGINEERING.....	30,902	6,787	9,086	4,367	10,662
PHYSICAL SCIENCES.....	28,209	5,209	8,494	10,552	3,954
MATHEMATICAL SCIENCES.....	11,816	2,220	1,072	5,207	3,317
LIFE SCIENCES.....	28,888	8,738	6,510	6,642	6,998
PSYCHOLOGY.....	12,781	4,470	1,738	2,608	3,965
SOCIAL SCIENCES.....	29,573	8,679	2,768	5,764	12,362
<b>FIRST YEAR, TOTAL.....</b>	<b>44,716</b>	<b>10,368</b>	<b>6,309</b>	<b>10,493</b>	<b>17,546</b>
ENGINEERING.....	12,019	2,849	2,463	1,416	5,291
PHYSICAL SCIENCES.....	7,025	1,181	779	3,632	1,633
MATHEMATICAL SCIENCES.....	3,901	621	214	1,535	1,551
LIFE SCIENCES.....	8,376	1,932	1,497	1,911	3,036
PSYCHOLOGY.....	3,541	1,167	522	699	1,153
SOCIAL SCIENCES.....	9,854	2,618	834	1,300	5,102
<b>BEYOND FIRST YEAR, TOTAL.....</b>	<b>97,453</b>	<b>25,735</b>	<b>23,359</b>	<b>24,647</b>	<b>23,712</b>
ENGINEERING.....	18,883	3,938	6,623	2,951	5,371
PHYSICAL SCIENCES.....	21,184	4,028	7,715	6,920	2,521
MATHEMATICAL SCIENCES.....	7,915	1,599	858	3,672	1,786
LIFE SCIENCES.....	20,512	6,806	5,013	4,731	3,962
PSYCHOLOGY.....	9,240	3,303	1,216	1,909	2,812
SOCIAL SCIENCES.....	19,719	6,061	1,934	4,464	7,260
<b>TOTAL, ALL AREAS OF SCIENCE.....</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
ENGINEERING.....	21.7	18.8	30.6	12.4	45.8
PHYSICAL SCIENCES.....	19.8	14.4	28.6	30.0	9.6
MATHEMATICAL SCIENCES.....	8.3	6.1	3.6	4.4	8.0
LIFE SCIENCES.....	20.3	24.2	21.9	18.9	17.0
PSYCHOLOGY.....	9.0	12.4	5.9	7.4	9.6
SOCIAL SCIENCES.....	20.8	24.0	9.3	16.4	30.0
<b>FIRST YEAR, TOTAL.....</b>	<b>31.5</b>	<b>28.7</b>	<b>21.3</b>	<b>29.9</b>	<b>42.5</b>
ENGINEERING.....	8.5	7.9	8.3	4.0	12.8
PHYSICAL SCIENCES.....	4.9	3.3	2.6	10.3	3.5
MATHEMATICAL SCIENCES.....	2.7	1.7	.7	4.4	3.7
LIFE SCIENCES.....	5.9	5.4	5.0	5.4	7.4
PSYCHOLOGY.....	2.5	3.2	1.8	2.0	2.8
SOCIAL SCIENCES.....	6.9	7.3	2.8	5.7	12.4
<b>BEYOND FIRST YEAR, TOTAL.....</b>	<b>68.5</b>	<b>71.3</b>	<b>78.7</b>	<b>70.1</b>	<b>57.5</b>
ENGINEERING.....	13.3	10.9	22.3	8.4	13.0
PHYSICAL SCIENCES.....	14.9	11.2	26.0	19.7	6.1
MATHEMATICAL SCIENCES.....	5.6	4.4	2.9	10.4	4.3
LIFE SCIENCES.....	14.4	18.9	16.9	13.5	9.6
PSYCHOLOGY.....	6.5	9.1	4.1	5.4	6.8
SOCIAL SCIENCES.....	13.9	16.8	6.5	12.7	17.6
<b>TOTAL, ALL AREAS OF SCIENCE.....</b>	<b>100.0</b>	<b>25.4</b>	<b>20.9</b>	<b>24.7</b>	<b>29.0</b>
ENGINEERING.....	100.0	22.0	29.4	14.1	34.5
PHYSICAL SCIENCES.....	100.0	18.5	30.1	37.4	14.0
MATHEMATICAL SCIENCES.....	100.0	18.8	9.1	44.1	28.1
LIFE SCIENCES.....	100.0	30.2	22.5	23.0	24.2
PSYCHOLOGY.....	100.0	35.0	13.6	20.4	31.0
SOCIAL SCIENCES.....	100.0	29.3	9.4	19.5	41.8
<b>FIRST YEAR, TOTAL.....</b>	<b>100.0</b>	<b>23.2</b>	<b>14.1</b>	<b>23.5</b>	<b>39.2</b>
ENGINEERING.....	100.0	23.7	20.5	11.8	44.0
PHYSICAL SCIENCES.....	100.0	16.8	11.1	51.7	20.4
MATHEMATICAL SCIENCES.....	100.0	15.9	5.5	39.3	39.2
LIFE SCIENCES.....	100.0	23.1	17.9	22.8	36.2
PSYCHOLOGY.....	100.0	33.0	14.7	19.7	32.6
SOCIAL SCIENCES.....	100.0	26.6	8.5	13.2	51.8
<b>BEYOND FIRST YEAR, TOTAL.....</b>	<b>100.0</b>	<b>26.4</b>	<b>24.0</b>	<b>25.3</b>	<b>24.3</b>
ENGINEERING.....	100.0	20.9	35.1	15.6	28.4
PHYSICAL SCIENCES.....	100.0	19.0	36.4	32.7	11.9
MATHEMATICAL SCIENCES.....	100.0	20.2	10.8	46.4	22.6
LIFE SCIENCES.....	100.0	33.2	24.4	23.1	16.3
PSYCHOLOGY.....	100.0	35.7	13.2	20.7	30.4
SOCIAL SCIENCES.....	100.0	30.7	9.8	22.6	36.8

TABLE C-9. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY SOURCE OF MAJOR SUPPORT AND AREA OF SCIENCE, 1971

SOURCE OF MAJOR SUPPORT	TOTAL	ENGI- NEERING	PHYSICAL SCIENCES	MATHE- MATICAL SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL, ALL SOURCES OF SUPPORT.....	142,169	30,902	28,209	11,816	28,888	12,781	29,573
ALL U.S. SOURCES, TOTAL.....	139,839	29,930	27,874	11,676	28,506	12,737	29,116
U.S. GOVERNMENT.....	45,101	11,137	10,725	2,359	10,417	4,775	5,688
ATOMIC ENERGY COMMISSION.....	2,054	553	1,306	53	127	3	12
DEPARTMENT OF AGRICULTURE.....	983	55	27	6	745	0	150
DEPARTMENT OF DEFENSE.....	4,629	2,592	1,322	302	119	78	216
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	17,734	1,909	2,186	582	6,462	3,425	3,170
NATIONAL DEFENSE EDUCATION ACT.....	4,796	713	960	370	935	405	1,413
NATIONAL INSTITUTES OF HEALTH.....	11,538	1,016	1,151	158	5,278	2,641	1,294
OTHER HEW.....	1,400	180	75	54	249	379	463
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	1,694	877	621	51	91	32	22
NATIONAL SCIENCE FOUNDATION.....	11,598	2,710	4,327	1,169	1,732	518	1,142
ALL OTHER U.S. GOVERNMENT AGENCIES.....	6,409	2,441	936	196	1,141	719	976
OTHER U.S. SOURCES.....	94,738	18,793	17,149	9,317	18,089	7,962	23,428
INSTITUTIONAL SUPPORT.....	52,615	8,178	12,776	6,235	10,474	4,449	10,983
PRIVATE FOUNDATIONS.....	3,998	685	134	134	907	244	1,394
INDUSTRY.....	3,709	2,207	532	223	513	101	133
SELF-SUPPORT.....	31,876	7,267	2,774	2,598	5,573	2,790	10,874
ALL OTHER U.S. SOURCES.....	2,540	456	433	127	622	358	544
FOREIGN SOURCES, TOTAL.....	2,330	972	335	140	382	44	457
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	98.4	96.9	98.8	98.8	98.7	99.7	98.5
U.S. GOVERNMENT.....	31.7	36.0	38.0	20.0	36.1	37.4	19.2
ATOMIC ENERGY COMMISSION.....	1.4	1.8	4.6	.4	.4	.0	.0
DEPARTMENT OF AGRICULTURE.....	.7	.2	.1	.1	2.6	.0	.5
DEPARTMENT OF DEFENSE.....	3.3	8.4	4.7	2.6	.4	.6	.7
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	12.5	6.2	7.7	4.9	22.4	26.8	10.7
NATIONAL DEFENSE EDUCATION ACT.....	3.4	2.3	3.4	3.1	3.2	3.2	4.8
NATIONAL INSTITUTES OF HEALTH.....	8.1	3.3	4.1	1.3	18.3	20.7	4.4
OTHER HEW.....	1.0	.6	.3	.3	.9	3.0	1.6
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	1.2	2.8	2.2	.4	.3	.3	.1
NATIONAL SCIENCE FOUNDATION.....	8.2	8.8	15.3	9.9	6.0	4.1	3.9
ALL OTHER U.S. GOVERNMENT AGENCIES.....	4.5	7.9	3.3	1.7	3.9	5.6	3.3
OTHER U.S. SOURCES.....	66.6	60.8	60.8	78.9	62.6	62.3	79.2
INSTITUTIONAL SUPPORT.....	37.0	26.5	45.3	52.8	36.3	35.0	35.4
PRIVATE FOUNDATIONS.....	2.8	2.2	2.2	3.1	3.1	1.9	4.7
INDUSTRY.....	2.6	7.1	1.9	1.9	1.8	.8	.4
SELF-SUPPORT.....	22.4	23.5	9.8	22.0	19.3	21.8	36.8
ALL OTHER U.S. SOURCES.....	1.8	1.5	1.5	1.1	2.2	2.8	1.8
FOREIGN SOURCES, TOTAL.....	1.6	3.1	1.2	1.2	1.3	.3	1.5
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. GOVERNMENT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ATOMIC ENERGY COMMISSION.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF AGRICULTURE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF DEFENSE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL DEFENSE EDUCATION ACT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL INSTITUTES OF HEALTH.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OTHER HEW.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL SCIENCE FOUNDATION.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL OTHER U.S. GOVERNMENT AGENCIES.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OTHER U.S. SOURCES.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
INSTITUTIONAL SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PRIVATE FOUNDATIONS.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
INDUSTRY.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SELF-SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL OTHER U.S. SOURCES.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
FOREIGN SOURCES, TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE C-12. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY SOURCE AND TYPE OF MAJOR SUPPORT, 1971

SOURCE OF MAJOR SUPPORT	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTS	TEACHING ASSISTANTS	OTHER TYPES OF SUPPORT
TOTAL, ALL SOURCES OF SUPPORT.....	142,169	36,103	29,668	35,140	41,258
ALL U.S. SOURCES, TOTAL.....	139,839	34,689	29,621	35,140	40,389
U.S. GOVERNMENT.....	45,101	23,182	18,902	431	2,586
ATOMIC ENERGY COMMISSION.....	2,054	246	1,789	0	19
DEPARTMENT OF AGRICULTURE.....	983	39	881	0	63
DEPARTMENT OF DEFENSE.....	4,629	319	3,280	0	1,030
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	17,734	14,246	3,238	101	149
NATIONAL DEFENSE EDUCATION ACT.....	4,745	36	4,709	0	15
NATIONAL INSTITUTES OF HEALTH.....	11,538	8,511	2,847	72	108
OTHER HEW.....	1,400	990	355	29	26
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	1,694	470	1,174	0	50
NATIONAL SCIENCE FOUNDATION.....	11,598	5,402	5,809	189	148
ALL OTHER U.S. GOVERNMENT AGENCIES.....	6,409	2,460	2,731	141	1,077
OTHER U.S. SOURCES.....	94,738	11,507	10,719	34,709	37,803
INSTITUTIONAL SUPPORT.....	52,615	7,130	8,419	34,442	2,524
PRIVATE FOUNDATIONS.....	3,998	1,005	1,005	116	284
INDUSTRY.....	3,709	1,375	1,029	16	1,289
SELF-SUPPORT.....	31,876	0	0	0	31,876
ALL OTHER U.S. SOURCES.....	2,540	405	266	135	1,730
FOREIGN SOURCES, TOTAL.....	2,330	1,414	47	0	869
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	98.4	96.1	99.8	100.0	97.9
U.S. GOVERNMENT.....	31.7	64.2	63.7	1.2	6.3
ATOMIC ENERGY COMMISSION.....	1.4	.7	6.0	.0	.0
DEPARTMENT OF AGRICULTURE.....	.7	.1	3.0	.0	.2
DEPARTMENT OF DEFENSE.....	3.3	.9	11.1	.0	2.5
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	12.5	39.5	10.9	.3	.4
NATIONAL DEFENSE EDUCATION ACT.....	3.4	13.1	.1	.0	.0
NATIONAL INSTITUTES OF HEALTH.....	8.1	23.6	9.6	.2	.3
OTHER HEW.....	1.0	2.7	1.2	.1	.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	1.2	1.3	4.0	.0	.1
NATIONAL SCIENCE FOUNDATION.....	8.2	15.0	19.6	.5	.5
ALL OTHER U.S. GOVERNMENT AGENCIES.....	4.5	6.8	9.2	.4	2.6
OTHER U.S. SOURCES.....	66.6	31.9	36.1	95.3	91.6
INSTITUTIONAL SUPPORT.....	37.0	19.7	28.4	98.0	6.4
PRIVATE FOUNDATIONS.....	2.8	7.2	3.4	.3	.7
INDUSTRY.....	2.6	3.8	3.5	.0	.0
SELF-SUPPORT.....	22.4	.0	.0	.0	3.1
ALL OTHER U.S. SOURCES.....	1.8	1.1	.9	.4	77.3
FOREIGN SOURCES, TOTAL.....	1.6	3.5	.2	.0	4.2
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	100.0	100.0	100.0	100.0	100.0
U.S. GOVERNMENT.....	100.0	100.0	100.0	100.0	100.0
ATOMIC ENERGY COMMISSION.....	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF AGRICULTURE.....	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF DEFENSE.....	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	100.0	100.0	100.0	100.0	100.0
NATIONAL DEFENSE EDUCATION ACT.....	100.0	100.0	100.0	100.0	100.0
NATIONAL INSTITUTES OF HEALTH.....	100.0	100.0	100.0	100.0	100.0
OTHER HEW.....	100.0	100.0	100.0	100.0	100.0
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	100.0	100.0	100.0	100.0	100.0
NATIONAL SCIENCE FOUNDATION.....	100.0	100.0	100.0	100.0	100.0
ALL OTHER U.S. GOVERNMENT AGENCIES.....	100.0	100.0	100.0	100.0	100.0
OTHER U.S. SOURCES.....	100.0	100.0	100.0	100.0	100.0
INSTITUTIONAL SUPPORT.....	100.0	100.0	100.0	100.0	100.0
PRIVATE FOUNDATIONS.....	100.0	100.0	100.0	100.0	100.0
INDUSTRY.....	100.0	100.0	100.0	100.0	100.0
SELF-SUPPORT.....	100.0	100.0	100.0	100.0	100.0
ALL OTHER U.S. SOURCES.....	100.0	100.0	100.0	100.0	100.0
FOREIGN SOURCES, TOTAL.....	100.0	100.0	100.0	100.0	100.0

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES,  
BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1971

AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL HEW	HEW				OTHER HEW	NASA	NSF	OTHER U.S. GOVT.
						NDEA	(NIH)	(NIH)	(NIH)				
TOTAL, ALL FIELDS OF SCIENCE.....	45,101	2,054	983	4,629	17,734	4,796	11,538	1,400	1,694	11,598	6,409		
ENGINEERING.....	11,137	553	55	2,592	1,909	713	1,016	180	877	2,710	2,441		
AERONAUTICAL.....	732	5	0	300	32	27	5	0	179	116	100		
AGRICULTURAL.....	112	0	30	0	19	14	5	0	2	14	47		
CHEMICAL.....	1,091	82	14	84	235	106	116	13	52	434	190		
CIVIL.....	2,034	8	3	280	458	51	303	104	32	332	921		
ELECTRICAL.....	2,247	31	2	665	350	181	157	12	248	673	278		
ENGINEERING SCIENCE.....	452	7	1	119	77	36	41	0	39	112	97		
INDUSTRIAL.....	773	4	1	182	143	72	52	19	29	153	261		
MECHANICAL.....	1,458	35	0	368	249	113	113	23	155	379	272		
METALLURGICAL AND MATERIALS.....	879	144	0	329	80	44	36	0	61	200	65		
MINING.....	79	1	0	3	6	6	0	0	3	9	57		
NUCLEAR.....	384	198	0	37	38	24	7	7	20	71	20		
PETROLEUM.....	52	0	0	6	10	6	4	0	5	22	9		
OTHER ENGINEERING.....	844	38	4	219	212	33	177	2	52	195	124		
PHYSICAL SCIENCES.....	10,725	1,306	27	1,322	2,186	960	1,151	75	621	4,327	936		
ASTRONOMY.....	263	0	0	7	19	10	0	0	50	175	12		
ATMOSPHERIC SCIENCES.....	540	22	2	107	32	14	8	10	45	248	84		
CHEMISTRY.....	4,199	352	10	303	1,534	418	1,069	47	78	1,660	262		
GEOSCIENCES.....	1,069	9	1	139	156	146	6	4	120	490	154		
OCEANOGRAPHY.....	561	19	0	122	39	26	10	3	7	220	154		
PHYSICS.....	4,093	904	14	644	406	337	58	11	321	1,534	270		
MATHEMATICAL SCIENCES.....	2,359	53	6	302	582	370	158	54	51	1,169	196		
APPLIED MATHEMATICS.....	528	45	2	134	53	35	17	1	5	261	28		
MATHEMATICS.....	1,410	5	2	97	321	285	134	29	38	811	136		
STATISTICS.....	421	3	2	71	208	50	134	24	8	97	32		
LIFE SCIENCES.....	10,417	127	745	119	6,462	935	5,278	249	91	1,732	1,141		
AGRICULTURE.....	2,027	12	554	33	628	204	399	25	19	294	487		
BIOCHEMISTRY.....	1,775	56	30	14	1,439	104	1,316	19	15	179	42		
BIOLOGY.....	2,077	16	16	9	1,398	212	1,078	108	14	476	148		
BOTANY.....	522	18	56	1	154	86	58	10	5	200	88		
MICROBIOLOGY.....	1,027	4	39	18	818	74	729	15	5	57	46		
PHARMACOLOGY.....	583	0	0	6	505	36	432	37	1	37	34		
PHYSIOLOGY.....	500	3	5	26	486	32	445	9	7	46	27		
ZOOLOGY.....	903	8	15	5	396	119	276	1	5	253	221		
OTHER LIFE SCIENCES.....	903	10	30	7	638	68	545	25	20	150	48		
PSYCHOLOGY.....	4,775	3	0	78	3,425	405	2,641	379	32	518	719		
SOCIAL SCIENCES.....	5,688	12	150	216	3,170	1,413	1,294	463	22	1,142	976		
AGRICULTURAL ECONOMICS.....	224	12	95	1	29	27	2	0	2	14	71		
ANTHROPOLOGY.....	784	0	0	6	541	163	357	21	2	185	49		
ECONOMICS (EXCEPT AGRICULTURAL).....	1,196	0	12	125	338	285	40	13	2	360	359		
GEOGRAPHY.....	261	0	1	9	131	100	7	24	1	67	52		
HISTORY AND PHILOSOPHY OF SCIENCE.....	134	0	0	0	91	90	1	0	1	41	1		
LINGUISTICS.....	572	0	0	11	343	148	55	140	3	128	87		
POLITICAL SCIENCE.....	874	0	0	33	504	370	76	58	10	158	169		
SOCIOLOGY.....	1,456	0	37	31	1,035	210	707	118	0	181	172		
SOCIOLOGY AND ANTHROPOLOGY.....	187	0	5	0	158	20	49	89	0	8	16		

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES,  
BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1971 (CONTINUED)

AREA AND FIELD OF SCIENCE	HEW										OTHER D.S. GOVT.
	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL HEW	NDEA (NIMH)	PHS (NIMH)	OTHER HEW	NASA	NSF	
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PERCENT DISTRIBUTION											
ENGINEERING.....	24.7	24.9	5.6	56.0	10.8	14.9	8.8	12.9	51.8	23.4	34.1
AERONAUTICAL.....	1.6	.2	.0	6.5	.2	.6	.0	.0	10.6	1.0	1.6
AGRICULTURAL.....	.2	.0	3.1	.0	.1	.3	.0	.0	.1	.1	.7
CHEMICAL.....	2.4	4.0	1.4	1.8	1.3	2.2	1.0	.9	3.1	3.7	3.0
CIVIL.....	4.5	.4	.3	6.0	2.6	1.1	2.6	7.4	1.9	2.9	14.4
ELECTRICAL.....	5.0	1.5	.2	14.4	2.0	3.8	1.4	.9	14.6	3.8	4.3
ENGINEERING SCIENCE.....	1.0	.3	.1	2.6	.8	.4	.5	.0	2.3	1.0	1.5
INDUSTRIAL.....	1.7	.2	.1	3.9	.8	1.5	.5	1.4	1.7	1.3	4.1
MECHANICAL.....	3.2	1.7	.0	7.9	1.4	2.4	1.0	1.6	9.1	3.3	4.2
METALLURGICAL AND MATERIALS.....	1.9	7.0	.0	7.1	.5	.9	.3	.0	3.6	1.7	1.0
MINING.....	.2	.0	.0	.1	.0	.1	.0	.0	.2	.1	.9
NUCLEAR.....	.9	9.6	.0	.8	.2	.5	.1	.5	1.2	.6	.3
PETROLEUM.....	.1	.0	.0	.1	.1	.1	.0	.0	.3	.2	.1
OTHER ENGINEERING.....	1.9	1.9	.4	4.7	1.2	.7	1.5	.1	3.1	1.7	1.9
PHYSICAL SCIENCES.....	23.8	63.6	2.7	28.6	12.3	20.0	10.0	5.4	36.7	37.3	14.6
ASTRONOMY.....	.6	.0	.0	.2	.1	.4	.0	.0	3.0	1.5	.2
ATMOSPHERIC SCIENCES.....	1.2	1.1	.2	2.3	.2	.3	.1	.7	2.7	2.1	1.3
CHEMISTRY.....	9.3	17.1	1.0	6.5	8.7	8.7	9.3	3.4	4.6	14.3	4.1
GEOLOGICAL SCIENCES.....	2.4	.4	.1	3.0	.9	3.0	.1	.3	7.1	4.2	2.4
OCEANOGRAPHY.....	1.2	.9	.0	2.6	.2	.5	.1	.2	.4	.6	2.4
PHYSICS.....	9.1	44.0	1.4	13.9	2.3	7.0	.5	.8	18.9	.2	4.2
MATHEMATICAL SCIENCES.....	5.2	2.6	.6	6.5	3.3	7.7	1.4	3.9	3.0	10.1	3.1
APPLIED MATHEMATICS.....	1.2	2.2	.2	2.9	.3	.7	.1	.1	.3	2.3	.4
MATHEMATICS.....	3.1	.2	.2	2.1	1.8	.9	.1	2.1	2.2	7.0	2.1
STATISTICS.....	.9	.1	.2	1.5	1.2	1.0	1.2	1.7	.5	.8	.5
LIFE SCIENCES.....	23.1	6.2	75.8	2.6	36.4	19.5	45.7	17.8	5.4	14.9	17.8
AGRICULTURE.....	4.5	.6	56.4	.7	3.5	4.3	3.5	1.8	1.1	2.5	7.6
BIOCHEMISTRY.....	3.9	2.7	3.1	.3	8.1	2.2	11.4	1.4	.9	1.5	.7
BIOLOGY.....	4.6	.8	1.6	.2	7.9	4.4	9.3	7.7	.8	4.1	2.3
BOTANY.....	1.2	.9	5.7	.0	.9	1.8	.5	.7	.3	1.7	1.4
MICROBIOLOGY.....	2.3	.2	4.0	.4	4.6	1.5	6.3	1.1	.3	.8	.7
PHARMACOLOGY.....	1.3	.0	.0	.1	2.8	.8	3.7	2.6	.1	.3	.5
PHYSIOLOGY.....	1.3	.1	.5	.6	2.7	.7	3.9	.6	.4	.4	.4
ZOOLOGY.....	2.0	.4	1.5	.1	2.2	2.5	2.4	.1	.3	2.2	3.4
OTHER LIFE SCIENCES.....	2.0	.5	3.1	.2	3.6	1.4	4.7	1.8	1.2	1.3	.7
PSYCHOLOGY.....	10.6	.1	.0	1.7	19.3	8.4	22.9	27.1	1.9	4.5	11.2
SOCIAL SCIENCES.....	12.6	.6	15.3	4.7	17.9	29.5	11.2	33.1	1.3	9.8	15.2
AGRICULTURAL ECONOMICS.....	.5	.6	9.7	.0	.2	.6	.0	.0	.1	.1	1.1
ANTHROPOLOGY.....	1.7	.0	.0	.1	3.1	3.4	3.1	1.5	.2	1.6	.8
ECONOMICS (EXCEPT AGRICULTURAL).....	2.7	.0	1.2	2.7	1.9	5.9	.3	.9	.1	3.1	5.6
GEOGRAPHY.....	.6	.0	.1	.2	.7	2.1	.1	1.7	.1	.6	.8
HISTORY AND PHILOSOPHY OF SCIENCE.....	.3	.6	.0	.0	.5	1.9	.0	.1	.1	.4	.0
LINGUISTICS.....	1.3	.0	.0	.2	1.9	3.1	.5	10.0	.2	1.1	1.4
POLITICAL SCIENCE.....	1.9	.0	.0	.7	2.8	7.7	.7	10.0	.6	1.4	2.6
SOCIOLOGY.....	3.2	.0	3.8	.7	5.8	4.4	6.1	8.4	.0	1.6	2.7
SOCIOLOGY AND ANTHROPOLOGY.....	.4	.0	.5	.0	.9	.4	.4	6.4	.0	.1	.2

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES, BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1971 (CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGR.	DEPT. OF DEFENSE	TOTAL HEW	HEW				NSF	UTHER U.S. GOVT.
						PHS (NIH)	NDEA (NIMH)	UTHER HEW	NASA		
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	4.6	2.2	10.3	39.3	10.6	25.6	3.1	3.8	25.7	14.2
PERCENT OF TOTAL											
ENGINEERING.....	100.0	5.0	.5	23.3	17.1	6.4	9.1	1.6	7.9	24.3	21.9
AERONAUTICAL.....	100.0	.7	.0	41.0	4.4	3.7	.7	.0	24.5	15.8	13.7
AGRICULTURAL.....	100.0	.0	26.8	.0	17.0	12.5	4.5	.0	1.8	12.5	42.0
CHEMICAL.....	100.0	7.5	1.3	7.7	21.5	9.7	10.6	1.2	4.8	39.8	17.4
CIVIL.....	100.0	.4	.1	13.8	22.5	2.5	14.9	5.1	1.6	16.3	45.3
ELECTRICAL.....	100.0	1.4	.1	29.6	15.6	8.1	7.0	.5	11.0	30.0	12.4
ENGINEERING SCIENCE.....	100.0	1.5	.2	26.3	17.0	8.0	9.1	.0	8.6	24.8	21.5
INDUSTRIAL.....	100.0	.5	.1	23.5	18.5	9.3	6.7	2.5	3.8	19.8	33.8
MECHANICAL.....	100.0	2.4	.0	25.2	17.1	7.8	7.8	1.6	10.6	26.0	18.7
METALLURGICAL AND MATERIALS.....	100.0	16.4	.0	37.4	9.1	5.0	4.1	.0	6.9	22.8	7.4
MINING.....	100.0	1.3	.0	3.8	7.6	7.6	.0	.0	3.8	11.4	72.2
NUCLEAR.....	100.0	51.6	.0	9.6	9.9	6.3	1.8	1.8	5.2	18.5	5.2
PETROLEUM.....	100.0	.0	.0	11.5	19.2	11.5	7.7	.0	5.6	42.3	17.3
OTHER ENGINEERING.....	100.0	4.5	.5	25.9	25.1	3.9	21.0	.2	6.2	23.1	14.7
PHYSICAL SCIENCES.....	100.0	12.2	.3	12.3	20.4	9.0	10.7	.7	5.8	40.3	8.7
ASTRONOMY.....	100.0	.0	.0	2.7	7.2	7.2	.0	.0	19.0	66.5	4.6
ATMOSPHERIC SCIENCES.....	100.0	4.1	.4	19.8	5.9	2.6	1.5	1.9	8.3	45.9	15.6
CHEMISTRY.....	100.0	8.4	.2	7.2	36.5	10.0	25.5	1.1	1.9	39.5	6.2
GEOLOGICAL.....	100.0	.8	.1	13.0	14.6	13.7	.6	.4	11.2	45.8	14.4
OCEANOGRAPHY.....	100.0	7.4	.0	21.7	7.0	4.6	1.8	.5	1.2	39.2	27.5
PHYSICS.....	100.0	22.1	.3	15.7	9.9	8.2	1.4	.3	7.8	37.5	6.6
MATHEMATICAL SCIENCES.....	100.0	2.2	.3	12.8	24.7	15.7	6.7	2.3	2.2	49.6	8.3
APPLIED MATHEMATICS.....	100.0	8.5	.4	25.4	10.0	6.6	3.2	.2	.9	49.4	5.3
MATHEMATICS.....	100.0	.4	.1	6.9	22.8	20.2	.5	2.1	2.7	57.5	9.6
STATISTICS.....	100.0	.7	.5	16.9	49.4	11.9	31.8	5.7	1.9	23.0	7.6
LIFE SCIENCES.....	100.0	1.2	7.2	1.1	62.0	9.0	50.7	2.4	.9	16.6	11.0
AGRICULTURE.....	100.0	.6	27.3	1.6	31.0	10.1	19.7	1.2	.9	14.5	24.0
BIOCHEMISTRY.....	100.0	3.2	1.7	.8	81.1	5.9	74.1	1.1	.8	10.1	2.4
BIOLOGY.....	100.0	.8	.8	.4	67.3	10.2	51.9	5.2	.7	22.9	7.1
BOTANY.....	100.0	3.4	10.7	.2	29.5	16.5	11.1	1.9	1.0	38.3	16.9
MICROBIOLOGY.....	100.0	.4	3.8	1.8	79.6	7.2	71.0	1.5	.5	5.4	4.5
PHARMACOLOGY.....	100.0	.0	.0	1.0	86.6	6.2	74.1	6.3	.2	6.3	5.8
PHYSIOLOGY.....	100.0	.5	.8	4.3	81.0	5.3	74.2	1.5	1.2	7.7	4.5
ZOOLOGY.....	100.0	.9	1.7	.6	43.9	13.2	30.6	.1	.6	28.0	24.5
OTHER LIFE SCIENCES.....	100.0	1.1	3.3	.8	70.7	7.5	60.4	2.8	2.2	16.6	5.3
PSYCHOLOGY.....	100.0	.1	.0	1.6	71.7	8.5	55.3	7.9	.7	10.8	15.1
SOCIAL SCIENCES.....	100.0	.2	2.6	3.8	55.7	24.8	22.7	8.1	.4	20.1	17.2
AGRICULTURAL ECONOMICS.....	100.0	5.4	42.4	.4	12.9	12.1	.9	.0	.9	6.3	31.7
ANTHROPOLOGY.....	100.0	.0	.0	.8	69.0	20.8	45.5	2.7	.4	23.6	6.3
ECONOMICS (EXCEPT AGRICULTURAL).....	100.0	.0	1.0	10.5	28.3	23.8	3.3	1.1	.2	30.1	30.0
GEOGRAPHY.....	100.0	.0	.4	3.4	50.2	38.3	2.7	9.2	.4	25.7	19.9
HISTORY AND PHILOSOPHY OF SCIENCE.....	100.0	.0	.0	.0	67.9	67.2	.7	.0	.7	30.6	.7
LINGUISTICS.....	100.0	.0	.0	1.9	60.0	25.9	9.6	24.5	.5	22.4	15.2
LITERATURE.....	100.0	.0	.0	3.8	57.7	42.3	8.7	6.6	1.1	18.1	19.3
POLITICAL SCIENCE.....	100.0	.0	.0	2.1	71.1	14.4	48.6	8.1	.0	12.4	11.8
SOCIOLOGY.....	100.0	.0	2.5	2.1	84.5	10.7	26.2	47.6	.0	4.3	8.6
SOCIOLOGY AND ANTHROPOLOGY.....	100.0	.0	2.7	.0							



TABLE C-12. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1971

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONAL SUPPORT	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
<b>TOTAL, ALL FIELDS OF SCIENCE.....</b>	<b>94,738</b>	<b>52,615</b>	<b>3,998</b>	<b>3,709</b>	<b>31,876</b>	<b>2,540</b>
<b>ENGINEERING.....</b>	<b>18,793</b>	<b>8,178</b>	<b>685</b>	<b>2,207</b>	<b>7,267</b>	<b>456</b>
AERONAUTICAL.....	582	329	28	38	177	10
AGRICULTURAL.....	281	192	12	10	59	8
CHEMICAL.....	1,996	875	138	363	56	64
CIVIL.....	2,924	1,203	109	124	1,419	65
ELECTRICAL.....	4,957	2,140	148	460	2,129	80
ENGINEERING SCIENCE.....	729	463	27	33	145	61
INDUSTRIAL.....	1,842	698	46	168	914	16
MECHANICAL.....	2,587	1,127	93	259	1,182	26
METALLURGICAL AND MATERIALS.....	790	347	35	213	179	16
MINING.....	183	94	7	35	25	22
NUCLEAR.....	485	230	5	37	150	63
PETROLEUM.....	93	51	8	22	11	1
OTHER ENGINEERING.....	1,244	429	29	445	321	20
<b>PHYSICAL SCIENCES.....</b>	<b>17,149</b>	<b>12,776</b>	<b>634</b>	<b>532</b>	<b>2,774</b>	<b>433</b>
ASTRONOMY.....	280	168	15	4	82	11
ATMOSPHERIC SCIENCES.....	192	94	10	12	71	5
CHEMISTRY.....	8,131	6,508	370	248	800	115
GEOSCIENCES.....	2,625	1,605	81	99	800	40
OCEANOGRAPHY.....	437	188	22	19	125	83
PHYSICS.....	5,484	4,123	136	150	896	179
<b>MATHEMATICAL SCIENCES.....</b>	<b>9,317</b>	<b>6,235</b>	<b>134</b>	<b>223</b>	<b>2,598</b>	<b>127</b>
APPLIED MATHEMATICS.....	1,564	750	14	171	607	22
MATHEMATICS.....	6,997	5,036	73	43	1,756	89
STATISTICS.....	756	449	47	9	235	16
<b>LIFE SCIENCES.....</b>	<b>18,089</b>	<b>10,474</b>	<b>907</b>	<b>513</b>	<b>5,573</b>	<b>622</b>
AGRICULTURE.....	4,067	2,102	310	233	1,262	160
BIOCHEMISTRY.....	1,278	800	95	18	321	44
BIOLOGY.....	4,643	2,656	137	96	1,561	193
BOTANY.....	1,539	1,084	50	27	357	21
MICROBIOLOGY.....	1,025	650	43	17	295	20
PHARMACOLOGY.....	700	447	74	44	127	8
PHYSIOLOGY.....	690	316	35	17	258	64
ZOOLOGY.....	2,879	1,811	84	44	896	44
OTHER LIFE SCIENCES.....	1,268	608	79	17	496	68
<b>PSYCHOLOGY.....</b>	<b>7,962</b>	<b>4,469</b>	<b>244</b>	<b>101</b>	<b>2,790</b>	<b>358</b>
<b>SOCIAL SCIENCES.....</b>	<b>23,428</b>	<b>10,483</b>	<b>1,394</b>	<b>133</b>	<b>10,874</b>	<b>544</b>
AGRICULTURAL ECONOMICS.....	591	390	49	1	129	22
ANTHROPOLOGY.....	2,586	1,095	103	5	1,333	50
ECONOMICS (EXCEPT AGRICULTURAL).....	5,496	2,701	362	34	2,318	81
GEOGRAPHY.....	1,345	727	68	10	497	43
HISTORY AND PHILOSOPHY OF SCIENCE.....	521	312	28	1	174	6
LINGUISTICS.....	1,790	700	84	15	962	29
POLITICAL SCIENCE.....	6,147	2,302	430	62	3,238	115
SOCIOLOGY.....	4,440	2,078	261	5	1,902	154
SOCIOLOGY AND ANTHROPOLOGY.....	512	178	9	0	321	4

TABLE C-12. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1971  
(CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONAL SUPPORT	PRIVATE NONPROFIT FOUNDATIONS		INDUSTRY	SELF-SUPPORT	UTHER
			PERCENT DISTRIBUTION				
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ENGINEERING.....	19.8	15.5	17.1	59.5	22.8	18.0	
AERONAUTICAL.....	.6	.6	.7	1.0	.6	.4	
AGRICULTURAL.....	.3	.4	.3	.3	.2	.3	
CHEMICAL.....	2.1	1.7	3.5	9.8	1.7	2.5	
CIVIL.....	3.1	2.3	2.7	3.3	4.5	2.7	
ELECTRICAL.....	5.2	4.1	3.7	12.4	6.7	3.1	
ENGINEERING SCIENCE.....	.8	.9	.7	.9	.5	2.4	
INDUSTRIAL.....	1.9	1.3	1.2	4.5	2.9	.6	
MECHANICAL.....	2.8	2.1	2.3	7.0	3.7	1.0	
METALLURGICAL AND MATERIALS.....	.8	.7	.9	5.7	.6	.6	
MINING.....	.2	.2	.2	.9	.1	.9	
NUCLEAR.....	.5	.4	.1	1.0	.5	2.5	
PETROLEUM.....	.1	.1	.2	.6	.0	.0	
OTHER ENGINEERING.....	1.3	.8	.7	12.0	1.0	.8	
PHYSICAL SCIENCES.....	18.1	24.3	15.9	14.3	8.7	17.0	
ASTRONOMY.....	.3	.3	.4	.1	.3	.4	
ATMOSPHERIC SCIENCES.....	.2	.2	.3	.3	.2	.2	
CHEMISTRY.....	8.6	12.5	9.3	6.7	2.5	4.5	
GEOLOGICAL.....	2.8	3.1	2.0	2.7	2.5	1.6	
OCEANOGRAPHY.....	.5	.4	.6	.5	.4	3.3	
PHYSICS.....	5.8	7.8	3.4	4.0	2.8	7.0	
MATHEMATICAL SCIENCES.....	9.8	11.9	3.4	6.0	8.2	5.0	
APPLIED MATHEMATICS.....	1.7	1.4	.4	4.6	1.9	.9	
MATHEMATICS.....	7.4	9.6	1.8	1.2	5.5	3.5	
STATISTICS.....	.8	.9	1.2	.2	.7	.6	
LIFE SCIENCES.....	19.1	19.9	22.7	13.8	17.5	24.5	
AGRICULTURE.....	4.3	4.0	7.8	6.3	4.0	6.3	
BIOCHEMISTRY.....	1.3	1.5	2.4	5.5	1.0	1.7	
BIOLOGY.....	4.9	5.0	3.4	2.6	4.9	7.6	
BOTANY.....	1.6	2.1	1.3	.7	1.1	.8	
MICROBIOLOGY.....	1.1	1.2	1.1	.5	.9	.8	
PHARMACOLOGY.....	.7	.8	1.9	1.2	.4	.3	
PHYSIOLOGY.....	.7	.6	.9	.5	.8	2.5	
ZOOLOGY.....	3.0	3.4	2.1	1.2	2.8	1.7	
OTHER LIFE SCIENCES.....	1.3	1.2	2.0	.5	1.6	2.7	
PSYCHOLOGY.....	8.4	8.5	6.1	2.7	8.8	14.1	
SOCIAL SCIENCES.....	24.7	19.9	34.9	3.6	34.1	21.4	
AGRICULTURAL ECONOMICS.....	.6	.7	1.2	.0	.4	.9	
ANTHROPOLOGY.....	2.7	2.1	2.6	.1	4.2	2.0	
ECONOMICS (EXCEPT AGRICULTURAL).....	5.8	5.1	9.1	.9	7.3	3.2	
GEOGRAPHY.....	1.4	1.4	1.7	.3	1.6	1.7	
HISTORY AND PHILOSOPHY OF SCIENCE.....	.5	.6	.7	.0	.5	.2	
LINGUISTICS.....	1.9	1.3	2.1	.4	3.0	1.1	
POLITICAL SCIENCE.....	6.5	4.4	10.8	1.7	10.2	4.5	
SOCIOLOGY.....	4.7	3.9	6.5	.1	6.0	7.6	
SOCIOLOGY AND ANTHROPOLOGY.....	.5	.3	.2	.0	1.0	.2	

TABLE C-12. . FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1971  
(CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONAL SUPPORT	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	UTHER
PERCENT OF TOTAL						
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	55.5	4.2	3.9	33.6	2.7
ENGINEERING.....	100.0	43.5	3.6	11.7	38.7	2.4
AERONAUTICAL.....	100.0	56.5	4.8	6.5	30.4	1.7
AGRICULTURAL.....	100.0	68.3	4.3	3.6	21.0	2.8
CHEMICAL.....	100.0	43.8	6.9	18.2	27.9	3.2
CIVIL.....	100.0	41.1	3.7	4.2	48.5	2.4
ELECTRICAL.....	100.0	43.2	3.0	9.3	42.9	1.6
ENGINEERING SCIENCE.....	100.0	63.5	3.7	4.5	19.9	8.4
INDUSTRIAL.....	100.0	37.9	2.5	9.1	49.6	.9
MECHANICAL.....	100.0	41.9	3.5	9.6	44.0	1.0
METALLURGICAL AND MATERIALS.....	100.0	43.9	4.4	27.0	22.7	2.0
MINING.....	100.0	51.4	3.8	19.1	13.7	12.0
NUCLEAR.....	100.0	47.4	1.0	7.6	30.9	13.0
PETROLEUM.....	100.0	54.8	8.6	23.7	11.8	1.1
OTHER ENGINEERING.....	100.0	34.5	2.3	35.8	25.8	1.6
PHYSICAL SCIENCES.....	100.0	74.5	3.7	3.1	16.2	2.5
ASTRONOMY.....	100.0	60.0	5.4	1.4	29.3	3.9
ATMOSPHERIC SCIENCES.....	100.0	49.0	5.2	6.3	37.0	2.6
CHEMISTRY.....	100.0	81.1	4.6	3.1	5.8	1.4
GEOSCIENCES.....	100.0	61.1	3.1	3.8	30.5	1.5
OCEANOGRAPHY.....	100.0	43.0	5.0	4.3	28.6	15.0
PHYSICS.....	100.0	75.2	2.5	2.7	16.3	3.3
MATHEMATICAL SCIENCES.....	100.0	66.9	1.4	2.4	27.9	1.4
APPLIED MATHEMATICS.....	100.0	48.0	.9	10.9	38.8	1.4
MATHEMATICS.....	100.0	72.0	1.0	.6	25.1	1.3
STATISTICS.....	100.0	59.4	6.2	1.2	31.1	2.1
LIFE SCIENCES.....	100.0	57.9	5.0	2.8	30.8	3.4
AGRICULTURE.....	100.0	51.7	7.6	5.7	31.0	3.9
BIOCHEMISTRY.....	100.0	62.6	7.4	1.4	25.1	3.4
BIOLOGY.....	100.0	57.2	3.0	2.1	33.6	4.2
BOTANY.....	100.0	70.4	3.2	1.8	23.2	1.4
MICROBIOLOGY.....	100.0	63.4	4.2	1.7	28.8	2.0
PHARMACOLOGY.....	100.0	63.9	10.6	6.3	18.1	1.1
PHYSIOLOGY.....	100.0	45.8	5.1	2.5	37.4	9.3
ZOOLOGY.....	100.0	62.9	2.9	1.5	31.1	1.5
OTHER LIFE SCIENCES.....	100.0	47.9	6.2	1.3	39.1	5.4
PSYCHOLOGY.....	100.0	56.1	3.1	1.3	35.0	4.5
SOCIAL SCIENCES.....	100.0	44.7	6.0	.6	46.4	2.3
AGRICULTURAL ECONOMICS.....	100.0	66.0	8.3	.2	21.8	3.7
ANTHROPOLOGY.....	100.0	42.3	4.0	.2	51.5	1.9
ECONOMICS (EXCEPT AGRICULTURAL).....	100.0	49.1	6.6	.6	42.2	1.5
GEOGRAPHY.....	100.0	54.1	5.1	.7	37.0	3.2
HISTORY AND PHILOSOPHY OF SCIENCE.....	100.0	59.9	5.4	.2	33.4	1.2
LINGUISTICS.....	100.0	39.1	4.7	.8	53.7	1.6
POLITICAL SCIENCE.....	100.0	37.4	7.0	1.0	52.7	1.9
SOCIOLOGY.....	100.0	46.8	5.9	.1	42.8	4.4
SOCIOLOGY AND ANTHROPOLOGY.....	100.0	34.8	1.8	.0	62.7	.8

Table C-13. Geographic distribution of graduate students in doctorate departments,  
by enrollment status and source of major support, 1971

Region, division, and State	Total	Full-time graduate students			Part-time graduate students
		Total	Supported by U.S. Government sources	Supported by non-U.S. Government sources	
<b>UNITED STATES, TOTAL</b>	<b>182,001</b>	<b>142,169</b>	<b>45,101</b>	<b>97,068</b>	<b>39,832</b>
<b>NORTHEAST</b>	<b>53,637</b>	<b>36,856</b>	<b>11,790</b>	<b>25,066</b>	<b>16,781</b>
New England	15,057	12,375	4,594	7,781	2,682
Maine	212	200	59	141	12
New Hampshire	540	494	169	325	46
Vermont	301	236	67	169	65
Massachusetts	9,712	7,805	2,963	4,842	1,907
Rhode Island	1,356	1,185	481	704	171
Connecticut	2,936	2,455	855	1,600	481
Middle Atlantic	38,580	24,481	7,196	17,285	14,099
New York	23,791	14,553	4,074	10,479	9,238
New Jersey	4,686	2,989	772	1,817	2,097
Pennsylvania	10,103	7,339	2,350	4,989	2,764
<b>NORTH CENTRAL</b>	<b>48,840</b>	<b>41,413</b>	<b>12,516</b>	<b>28,897</b>	<b>7,427</b>
East North Central	35,400	29,971	8,814	21,157	5,429
Ohio	7,848	5,857	1,349	4,508	1,991
Indiana	5,233	4,651	1,546	3,105	582
Illinois	9,610	8,421	2,904	5,517	1,189
Michigan	8,504	7,154	1,694	5,460	1,350
Wisconsin	4,205	3,888	1,321	2,567	317
West North Central	13,440	11,442	3,702	7,740	1,998
Minnesota	2,852	2,469	750	1,719	383
Iowa	3,231	2,858	772	2,086	373
Missouri	3,782	3,041	1,040	2,001	741
North Dakota	326	295	97	198	31
South Dakota	357	324	215	109	33
Nebraska	992	752	188	564	240
Kansas	1,900	1,703	640	1,063	197
<b>SOUTH</b>	<b>41,379</b>	<b>31,015</b>	<b>9,572</b>	<b>21,443</b>	<b>10,364</b>
South Atlantic	22,481	16,535	5,500	11,035	5,946
Delaware	777	454	147	307	323
Maryland	4,118	2,692	842	1,850	1,426
District of Columbia	4,000	1,780	432	1,348	2,220
Virginia	2,120	1,720	577	1,143	400
West Virginia	809	656	204	452	153
North Carolina	3,377	3,076	1,244	1,832	301
South Carolina	1,039	901	184	717	138
Georgia	2,806	2,378	697	1,681	428
Florida	3,435	2,878	1,173	1,705	557
East South Central	4,925	4,162	1,314	2,848	763
Kentucky	1,233	1,067	329	738	166
Tennessee	2,301	1,876	594	1,282	425
Alabama	815	696	233	463	110
Mississippi	576	523	158	365	53
West South Central	13,973	10,318	2,758	7,560	3,655
Arkansas	478	446	120	326	32
Louisiana	1,471	1,261	362	899	210
Oklahoma	3,838	2,162	599	1,563	1,676
Texas	8,186	6,449	1,677	4,772	1,737

Massachusetts	9,712	7,805	2,963	4,842	1,907
Rhode Island	1,356	1,185	481	704	171
Connecticut	2,936	2,455	855	1,600	481
Middle Atlantic	38,580	24,481	7,196	17,285	14,099
New York	23,791	14,553	4,074	10,479	9,238
New Jersey	4,686	2,589	772	1,817	2,097
Pennsylvania	10,103	7,339	2,350	4,989	2,764
<b>NORTH CENTRAL</b>					
East North Central	48,840	41,413	12,516	28,897	7,427
Ohio	35,400	29,971	8,814	21,157	5,429
Indiana	7,848	5,857	1,349	4,508	1,991
Illinois	5,233	4,651	1,546	3,105	582
Michigan	9,610	8,421	2,904	5,517	1,189
Wisconsin	8,504	7,164	1,694	5,460	1,350
West North Central	4,205	3,888	1,321	2,567	317
Minnesota	13,440	11,442	3,702	7,740	1,998
Iowa	2,852	2,469	750	1,719	383
Missouri	3,231	2,858	772	2,086	373
North Dakota	3,782	3,041	1,040	2,001	741
South Dakota	326	295	97	198	31
Nebraska	357	324	215	109	33
Kansas	992	752	188	564	240
	1,900	1,703	640	1,063	197
<b>SOUTH</b>					
South Atlantic	41,379	31,015	9,572	21,443	10,364
Delaware	22,481	16,535	5,500	11,035	5,946
Maryland	777	454	147	307	323
District of Columbia	4,118	2,692	842	1,850	1,426
Virginia	4,000	1,780	432	1,348	2,220
West Virginia	2,120	1,720	577	1,143	400
North Carolina	809	656	204	452	153
South Carolina	3,377	3,076	1,244	1,832	301
Georgia	1,039	901	184	717	138
Florida	2,806	2,378	697	1,681	428
East South Central	3,435	2,878	1,173	1,705	557
Kentucky	4,925	4,162	1,314	2,848	763
Tennessee	1,233	1,067	329	738	166
Alabama	2,301	1,876	594	1,282	425
Mississippi	815	696	233	463	119
West South Central	576	523	158	365	53
Arkansas	13,973	10,318	2,758	7,560	3,655
Louisiana	478	446	120	326	32
Oklahoma	1,471	1,261	362	899	210
Texas	3,838	2,162	599	1,563	1,676
	8,186	6,449	1,677	4,772	1,737
<b>WEST</b>					
Mountain	38,146	32,885	11,223	21,662	5,260
Montana	11,929	9,913	3,064	6,849	2,016
Idaho	591	568	147	421	23
Wyoming	363	320	111	209	43
Colorado	459	431	117	314	28
New Mexico	3,871	3,402	1,153	2,249	469
Arizona	1,281	857	226	631	424
Utah	3,083	2,367	669	1,698	716
Nevada	2,004	1,741	571	1,170	263
Pacific	277	227	70	157	50
Washington	26,216	22,972	8,159	14,813	3,244
Oregon	3,612	3,132	1,156	1,976	480
California	2,488	2,240	760	1,480	248
Alaska	18,858	16,422	5,773	10,649	2,436
Hawaii	70	67	30	37	3
	1,188	1,111	440	671	77

TABLE C-14. FULL-TIME FACULTY AND POSTDOCTORALS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, 1971

AREA AND FIELD OF SCIENCE	TOTAL FACULTY		GRADUATE FACULTY		TOTAL POSTDOCTORALS		RECENT POSTDOCTORALS	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	57,363	100.0	48,826	85.1	9,250	100.0	6,548	70.8
ENGINEERING.....	11,624	20.3	9,954	85.6	913	9.9	582	63.7
AERONAUTICAL.....	539	.9	465	86.3	47	.5	33	70.2
AGRICULTURAL.....	416	.7	279	67.1	18	.2	6	33.3
CHEMICAL.....	1,076	1.9	991	92.1	110	1.2	61	55.5
CIVIL.....	1,768	3.1	1,526	86.3	95	1.0	52	54.7
ELECTRICAL.....	2,652	4.6	2,261	85.3	155	1.7	107	69.0
ENGINEERING SCIENCE.....	614	1.1	556	90.6	71	.8	38	53.5
INDUSTRIAL.....	766	1.3	628	82.0	19	.2	8	42.1
MECHANICAL.....	2,072	3.6	1,707	82.4	94	1.0	65	69.1
METALLURGICAL AND MATERIALS.....	586	1.0	540	92.2	136	1.5	109	80.1
MINING.....	102	.2	90	88.2	8	.1	6	75.0
NUCLEAR.....	222	.4	214	96.4	25	.3	13	52.0
PETROLEUM.....	52	.1	49	94.2	7	.1	6	85.7
OTHER ENGINEERING.....	759	1.3	648	85.4	128	1.4	78	60.9
PHYSICAL SCIENCES.....	10,919	19.0	9,710	88.9	3,998	43.2	3,085	77.2
ASTRONOMY.....	234	.4	223	95.3	71	.8	35	49.3
ATMOSPHERIC SCIENCES.....	230	.4	200	87.0	72	.8	38	52.8
CHEMISTRY.....	4,116	7.2	3,719	90.4	2,302	24.9	1,888	82.0
GEOSCIENCES.....	1,389	2.4	1,249	89.9	237	2.6	156	65.8
OCEANOGRAPHY.....	429	.7	362	79.7	19	.2	10	52.6
PHYSICS.....	4,521	7.9	3,977	88.0	1,297	14.0	958	73.5
MATHEMATICAL SCIENCES.....	6,000	10.5	4,962	82.7	236	2.6	148	52.7
APPLIED MATHEMATICS.....	452	.8	372	82.3	26	.3	13	50.0
MATHEMATICS.....	5,038	8.8	4,125	81.9	171	1.8	112	65.5
STATISTICS.....	510	.9	465	91.2	39	.4	23	59.0
LIFE SCIENCES.....	15,262	26.6	12,588	82.5	3,642	39.4	2,462	67.6
AGRICULTURE.....	3,996	7.0	2,986	74.7	334	3.6	228	68.3
BIOCHEMISTRY.....	1,579	2.8	1,398	88.5	1,025	11.1	774	75.5
BIOLOGY.....	2,806	4.9	2,488	88.7	900	9.7	584	64.9
BOTANY.....	1,124	2.0	968	86.1	134	1.4	96	71.6
MICROBIOLOGY.....	966	1.7	864	89.4	293	3.2	190	64.8
PHARMACOLOGY.....	973	1.7	777	79.9	287	3.1	156	54.4
PHYSIOLOGY.....	841	1.5	750	89.2	227	2.5	152	67.0
ZOOLOGY.....	1,328	2.3	1,140	85.8	186	2.0	122	65.6
OTHER LIFE SCIENCES.....	1,649	2.9	1,217	73.8	256	2.8	160	62.5
PSYCHOLOGY.....	3,603	6.3	3,260	90.5	257	2.8	185	72.0
SOCIAL SCIENCES.....	9,955	17.4	8,352	83.9	204	2.2	86	42.2
AGRICULTURAL ECONOMICS.....	478	.8	358	74.9	2	.0	0	.0
ANTHROPOLOGY.....	910	1.6	788	86.6	31	.3	11	35.5
ECONOMICS (EXCEPT AGRICULTURAL).....	2,589	4.5	2,105	81.3	48	.5	19	39.6
GEOGRAPHY.....	511	.9	455	89.0	21	.2	13	61.9
HISTORY AND PHILOSOPHY OF SCIENCE.....	299	.5	252	84.3	14	.2	9	64.3
LINGUISTICS.....	654	1.1	581	88.8	21	.2	12	57.1
POLITICAL SCIENCE.....	2,288	4.0	2,073	90.6	15	.2	2	13.3
SOCIOLOGY.....	1,989	3.5	1,555	78.2	51	.6	20	39.2
SOCIOLOGY AND ANTHROPOLOGY.....	237	.4	185	78.1	1	.0	0	.0

TABLE C-15. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY AREA OF SCIENCE, CITIZENSHIP, AND ENROLLMENT STATUS, 1969-71

AREA OF SCIENCE	1969	NUMBER 1970	1971	PERCENT CHANGE	
				1969-70	1970-71
ALL GRADUATE STUDENTS					
TOTAL.....	171,571	170,295	165,303	-0.7	-2.9
ENGINEERING.....	48,422	47,586	44,869	-1.7	-5.7
PHYSICAL SCIENCES.....	33,357	32,199	30,411	-3.5	-5.6
MATHEMATICAL SCIENCES.....	14,865	14,905	14,041	.3	-5.8
LIFE SCIENCES.....	27,580	27,912	27,607	1.2	-1.1
PSYCHOLOGY.....	12,713	12,902	13,444	1.5	4.2
SOCIAL SCIENCES.....	34,634	34,791	34,931	.5	.4
U. S. CITIZENS.....	142,199	139,362	134,970	-2.0	-3.2
ENGINEERING.....	36,249	34,582	32,118	-4.6	-7.1
PHYSICAL SCIENCES.....	27,574	26,228	24,583	-4.9	-6.3
MATHEMATICAL SCIENCES.....	12,659	12,564	11,706	-.8	-6.8
LIFE SCIENCES.....	23,912	23,912	23,735	1.2	-.7
PSYCHOLOGY.....	12,185	12,409	12,918	1.8	4.1
SOCIAL SCIENCES.....	29,897	29,667	29,910	-.8	.8
FOREIGN STUDENTS.....	29,372	30,933	30,333	5.3	-1.9
ENGINEERING.....	12,173	13,004	12,751	6.8	-1.9
PHYSICAL SCIENCES.....	5,783	5,971	5,828	3.3	-2.4
MATHEMATICAL SCIENCES.....	2,206	2,341	2,335	6.1	-.3
LIFE SCIENCES.....	3,945	4,000	3,872	1.4	-3.2
PSYCHOLOGY.....	528	493	526	-6.6	6.7
SOCIAL SCIENCES.....	4,737	5,124	5,021	8.2	-2.0
FULL-TIME STUDENTS					
TOTAL.....	131,935	131,902	129,939	0	-1.5
ENGINEERING.....	28,793	29,534	28,945	2.6	-2.0
PHYSICAL SCIENCES.....	29,253	28,264	27,056	-3.4	-4.3
MATHEMATICAL SCIENCES.....	11,349	11,500	11,008	1.3	-4.3
LIFE SCIENCES.....	24,645	24,739	24,752	.4	.1
PSYCHOLOGY.....	11,142	11,272	11,817	1.2	4.8
SOCIAL SCIENCES.....	26,753	26,593	26,361	-.6	-.9
U. S. CITIZENS.....	105,768	104,724	103,400	-1.0	-1.3
ENGINEERING.....	18,617	18,841	18,581	1.2	-1.4
PHYSICAL SCIENCES.....	23,719	22,612	21,560	-4.7	-4.7
MATHEMATICAL SCIENCES.....	9,310	9,340	8,840	.3	-5.4
LIFE SCIENCES.....	20,888	20,980	21,056	.4	.4
PSYCHOLOGY.....	10,660	10,818	11,339	1.5	4.8
SOCIAL SCIENCES.....	22,574	22,133	22,024	-2.0	-.5
FOREIGN STUDENTS.....	26,167	27,178	26,539	3.9	-2.4
ENGINEERING.....	10,176	10,693	10,364	5.1	-3.1
PHYSICAL SCIENCES.....	5,534	5,652	5,496	2.1	-2.6
MATHEMATICAL SCIENCES.....	2,039	2,160	2,168	5.9	.4
LIFE SCIENCES.....	3,757	3,759	3,696	.1	-1.7
PSYCHOLOGY.....	482	454	478	-5.8	5.3
SOCIAL SCIENCES.....	4,179	4,460	4,337	6.7	-2.8
PART-TIME STUDENTS					
TOTAL.....	39,636	38,393	35,364	-3.1	-7.9
ENGINEERING.....	19,629	18,052	15,924	-8.0	-11.8
PHYSICAL SCIENCES.....	4,104	3,955	3,555	-4.1	-10.7
MATHEMATICAL SCIENCES.....	3,516	3,405	3,033	-3.2	-10.9
LIFE SCIENCES.....	2,935	3,173	2,855	8.1	-10.0
PSYCHOLOGY.....	1,571	1,630	1,627	3.8	-.2
SOCIAL SCIENCES.....	7,881	8,198	8,570	4.0	4.5
U. S. CITIZENS.....	36,431	34,638	31,570	-4.9	-8.9
ENGINEERING.....	17,632	15,741	13,537	-10.7	-14.0
PHYSICAL SCIENCES.....	3,855	3,616	3,023	-6.2	-16.4
MATHEMATICAL SCIENCES.....	3,349	3,224	2,866	-3.7	-11.1
LIFE SCIENCES.....	2,747	2,932	2,679	6.7	-8.6
PSYCHOLOGY.....	1,525	1,591	1,579	4.3	-.8
SOCIAL SCIENCES.....	7,323	7,534	7,886	2.9	4.7
FOREIGN STUDENTS.....	3,205	3,755	3,794	17.2	1.0
ENGINEERING.....	1,997	2,311	2,387	15.7	3.3
PHYSICAL SCIENCES.....	249	319	332	28.1	4.1
MATHEMATICAL SCIENCES.....	142	142	142	0	0



FOREIGN STUDENTS.....					30,933	30,333	5.3	-1.9
ENGINEERING.....	12,173	13,004	12,751	6.8				-1.9
PHYSICAL SCIENCES.....	5,783	5,971	5,828	3.3				-2.4
MATHEMATICAL SCIENCES.....	2,206	2,341	2,335	6.1				-3
LIFE SCIENCES.....	3,945	4,000	3,872	1.4				-3.2
PSYCHOLOGY.....	528	493	526	-6.6				6.7
SOCIAL SCIENCES.....	4,737	5,124	5,021	8.2				-2.0
TOTAL.....					131,935	129,939	□	-1.5
U. S. CITIZENS.....					104,724	103,400	-1.0	-1.3
ENGINEERING.....	18,617	18,841	18,581	1.2				-1.4
PHYSICAL SCIENCES.....	23,719	22,612	21,560	-4.7				-4.7
MATHEMATICAL SCIENCES.....	9,310	9,340	8,840	.3				-5.4
LIFE SCIENCES.....	20,888	20,980	21,056	.4				.4
PSYCHOLOGY.....	10,660	10,818	11,339	1.5				4.8
SOCIAL SCIENCES.....	22,574	22,133	22,024	-2.0				-5
FOREIGN STUDENTS.....					26,167	26,539	3.9	-2.4
ENGINEERING.....	10,176	10,693	10,364	5.1				-3.1
PHYSICAL SCIENCES.....	5,534	5,652	5,496	2.1				-2.8
MATHEMATICAL SCIENCES.....	2,939	2,160	2,168	5.9				.4
LIFE SCIENCES.....	3,757	3,759	3,696	.1				-1.7
PSYCHOLOGY.....	482	454	478	-5.8				5.3
SOCIAL SCIENCES.....	4,179	4,460	4,337	6.7				-2.8
TOTAL.....					39,636	38,393	-3.1	-7.9
ENGINEERING.....	19,629	18,052	15,924	-8.0				-11.8
PHYSICAL SCIENCES.....	4,104	3,935	3,355	-4.1				-14.7
MATHEMATICAL SCIENCES.....	3,516	3,405	3,033	-3.2				-10.9
LIFE SCIENCES.....	2,935	3,173	2,855	8.1				-10.0
PSYCHOLOGY.....	1,571	1,630	1,627	3.8				-2
SOCIAL SCIENCES.....	7,881	8,198	8,570	4.0				4.5
U. S. CITIZENS.....					36,431	31,570	-4.9	-8.9
ENGINEERING.....	17,632	15,741	13,537	-10.7				-14.0
PHYSICAL SCIENCES.....	3,855	3,616	3,023	-6.2				-16.4
MATHEMATICAL SCIENCES.....	3,349	3,224	2,866	-3.7				-11.1
LIFE SCIENCES.....	2,747	2,932	2,679	6.7				-8.6
PSYCHOLOGY.....	1,525	1,591	1,579	4.3				-4.8
SOCIAL SCIENCES.....	7,323	7,534	7,886	2.9				4.7
FOREIGN STUDENTS.....					3,205	3,794	17.2	1.0
ENGINEERING.....	1,997	2,311	2,387	15.7				3.3
PHYSICAL SCIENCES.....	249	319	332	28.1				4.1
MATHEMATICAL SCIENCES.....	167	181	167	8.4				-7.7
LIFE SCIENCES.....	188	241	176	28.2				-27.0
PSYCHOLOGY.....	46	39	48	#				#
SOCIAL SCIENCES.....	558	664	684	19.0				3.0

PART-TIME STUDENTS

\* PERCENT CHANGE IS NOT SHOWN WHEN RATE IS 50 OR LESS.  
□ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-16. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY AREA OF SCIENCE, LEVEL OF STUDY, AND ENROLLMENT STATUS, 1969-71

AREA OF SCIENCE	1969	NUMBER 1970	1971	PERCENT CHANGE	
				1969-70	1970-71
ALL GRADUATE STUDENTS					
TOTAL.....	171,571	170,295	165,303	-0.7	-2.9
ENGINEERING.....	48,422	47,586	44,869	-1.7	-5.7
PHYSICAL SCIENCES.....	33,357	32,199	30,411	-3.5	-5.6
MATHEMATICAL SCIENCES.....	14,865	14,905	14,041	.3	-5.8
LIFE SCIENCES.....	27,580	27,912	27,607	1.2	-1.1
PSYCHOLOGY.....	12,713	12,902	13,444	1.5	4.2
SOCIAL SCIENCES.....	34,634	34,791	34,931	.5	.4
FIRST YEAR, TOTAL.....	59,933	57,584	53,026	-3.9	-7.9
ENGINEERING.....	21,001	20,430	18,410	-2.7	-9.9
PHYSICAL SCIENCES.....	9,126	8,045	7,386	-11.8	-8.2
MATHEMATICAL SCIENCES.....	5,383	5,167	4,745	-4.0	-8.2
LIFE SCIENCES.....	8,319	8,139	7,724	-2.2	-5.1
PSYCHOLOGY.....	3,779	3,763	3,552	-.4	-5.6
SOCIAL SCIENCES.....	12,325	12,040	11,209	-2.3	-6.9
BEYOND FIRST YEAR, TOTAL.....	111,638	112,711	112,277	1.0	-.4
ENGINEERING.....	27,421	27,156	26,459	-1.0	-2.6
PHYSICAL SCIENCES.....	24,231	24,154	23,025	-.3	-4.7
MATHEMATICAL SCIENCES.....	9,482	9,738	9,296	2.7	-4.5
LIFE SCIENCES.....	19,261	19,773	19,883	2.7	.6
PSYCHOLOGY.....	8,934	9,139	9,892	2.3	8.2
SOCIAL SCIENCES.....	22,309	22,751	23,722	2.0	4.3
FULL-TIME STUDENTS					
TOTAL.....	131,935	131,902	129,939	0	-1.5
ENGINEERING.....	28,793	29,534	28,945	2.6	-2.0
PHYSICAL SCIENCES.....	29,253	28,264	27,056	-3.4	-4.3
MATHEMATICAL SCIENCES.....	11,349	11,500	11,008	1.3	-4.3
LIFE SCIENCES.....	24,645	24,739	24,752	.4	.1
PSYCHOLOGY.....	11,142	11,272	11,817	1.2	4.8
SOCIAL SCIENCES.....	26,753	26,593	26,361	-.6	-.9
FIRST YEAR, TOTAL.....	43,144	42,199	40,069	-2.2	-5.0
ENGINEERING.....	11,189	11,710	11,154	4.7	-4.7
PHYSICAL SCIENCES.....	7,795	7,066	6,609	-9.4	-6.5
MATHEMATICAL SCIENCES.....	4,060	3,944	3,572	-2.9	-9.4
LIFE SCIENCES.....	7,487	7,297	7,090	-2.5	-2.8
PSYCHOLOGY.....	3,308	3,194	3,200	-3.4	-.2
SOCIAL SCIENCES.....	9,305	8,988	8,444	-3.4	-6.1
BEYOND FIRST YEAR, TOTAL.....	88,791	89,703	89,870	1.0	.2
ENGINEERING.....	17,604	17,824	17,791	1.2	-.2
PHYSICAL SCIENCES.....	21,458	21,198	20,447	-1.2	-3.5
MATHEMATICAL SCIENCES.....	7,289	7,556	7,436	3.7	-1.6
LIFE SCIENCES.....	17,158	17,442	17,662	1.7	1.3
PSYCHOLOGY.....	7,834	8,078	8,617	3.1	6.7
SOCIAL SCIENCES.....	17,448	17,605	17,917	.9	1.8
PART-TIME STUDENTS					
TOTAL.....	39,636	38,393	35,364	-3.1	-7.9
ENGINEERING.....	19,629	18,052	15,924	-8.0	-11.8
PHYSICAL SCIENCES.....	4,104	3,935	3,355	-4.1	-14.7
MATHEMATICAL SCIENCES.....	3,516	3,405	3,033	-3.2	-10.9
LIFE SCIENCES.....	2,935	3,173	2,855	8.1	-10.0
PSYCHOLOGY.....	1,571	1,630	1,627	3.8	-.2
SOCIAL SCIENCES.....	7,881	8,198	8,570	4.0	4.5
FIRST YEAR, TOTAL.....	16,789	15,385	12,957	-8.4	-15.8
ENGINEERING.....	9,812	8,720	7,256	-11.1	-16.8
PHYSICAL SCIENCES.....	1,331	979	777	-26.4	-20.6
MATHEMATICAL SCIENCES.....	1,323	1,225	1,173	-7.6	-4.1
LIFE SCIENCES.....	832	842	634	1.2	-24.7
PSYCHOLOGY.....	471	569	352	20.8	-38.1
SOCIAL SCIENCES.....	3,020	3,052	2,765	1.1	-9.4
BEYOND FIRST YEAR, TOTAL.....	22,847	23,008	22,407	.7	-2.6
ENGINEERING.....	9,817	9,332	8,668	-4.9	-7.1
PHYSICAL SCIENCES.....	2,773	2,956	2,578	6.6	-12.8
MATHEMATICAL SCIENCES.....	2,193	2,182	1,840	-.5	-14.8

MATHEMATICAL SCIENCES.....	5,383	17,385	-11.8	-8.2
LIFE SCIENCES.....	8,139	4,745	-4.0	-5.1
PSYCHOLOGY.....	3,779	7,724	-2.2	-5.6
SOCIAL SCIENCES.....	12,325	3,552	-4	-6.9
BEYOND FIRST YEAR, TOTAL.....	111,638	11,209	-2.3	-4
ENGINEERING.....	27,421	112,277	1.0	-2.6
PHYSICAL SCIENCES.....	24,231	26,459	-1.0	-4.7
MATHEMATICAL SCIENCES.....	9,482	23,025	-3	-4.5
LIFE SCIENCES.....	19,261	9,286	2.7	.6
PSYCHOLOGY.....	8,934	19,883	2.3	8.2
SOCIAL SCIENCES.....	22,309	9,892	2.0	4.3
TOTAL.....	131,935	23,722		
ENGINEERING.....	28,793	129,939	1.5	-2.0
PHYSICAL SCIENCES.....	28,264	28,945	2.6	-4.3
MATHEMATICAL SCIENCES.....	11,349	27,056	-3.4	.1
LIFE SCIENCES.....	24,645	11,500	.4	4.8
PSYCHOLOGY.....	11,142	24,752	1.2	-9
SOCIAL SCIENCES.....	26,753	11,817	-6	-5.0
FIRST YEAR, TOTAL.....	43,144	26,361	-2.2	-4.7
ENGINEERING.....	11,189	40,069	4.7	-6.5
PHYSICAL SCIENCES.....	7,795	11,154	-9.4	-9.4
MATHEMATICAL SCIENCES.....	4,060	3,572	-2.9	-2.8
LIFE SCIENCES.....	7,487	7,090	-2.5	-6.1
PSYCHOLOGY.....	3,308	3,200	-3.4	.2
SOCIAL SCIENCES.....	9,305	8,444	-3.4	.2
BEYOND FIRST YEAR, TOTAL.....	88,791	89,870	1.0	-2
ENGINEERING.....	17,604	17,791	1.2	-3.5
PHYSICAL SCIENCES.....	21,458	20,447	-1.2	-1.6
MATHEMATICAL SCIENCES.....	7,289	7,436	3.7	1.3
LIFE SCIENCES.....	17,158	17,662	1.7	6.7
PSYCHOLOGY.....	7,834	8,617	3.1	1.8
SOCIAL SCIENCES.....	17,448	17,917	.9	
TOTAL.....	39,636	35,364	-3.1	-7.9
ENGINEERING.....	19,629	15,924	-8.0	-11.8
PHYSICAL SCIENCES.....	4,104	3,355	-4.1	-14.7
MATHEMATICAL SCIENCES.....	3,516	3,033	-3.2	-10.9
LIFE SCIENCES.....	2,935	2,855	8.1	-10.0
PSYCHOLOGY.....	1,571	1,627	3.8	-2
SOCIAL SCIENCES.....	7,881	8,570	4.0	4.5
FIRST YEAR, TOTAL.....	16,789	12,957	-8.4	-15.8
ENGINEERING.....	9,812	7,256	-11.1	-16.8
PHYSICAL SCIENCES.....	1,331	777	-26.4	-20.6
MATHEMATICAL SCIENCES.....	1,323	1,173	-7.6	-4.1
LIFE SCIENCES.....	832	634	1.2	-24.7
PSYCHOLOGY.....	471	352	20.8	-38.1
SOCIAL SCIENCES.....	3,020	2,765	1.1	-9.4
BEYOND FIRST YEAR, TOTAL.....	22,847	22,407	.7	-2.6
ENGINEERING.....	9,817	8,668	-4.9	-7.1
PHYSICAL SCIENCES.....	2,773	2,578	6.6	-12.8
MATHEMATICAL SCIENCES.....	2,193	1,860	-5	-14.8
LIFE SCIENCES.....	2,103	2,221	10.8	-4.7
PSYCHOLOGY.....	1,100	1,275	-3.5	20.2
SOCIAL SCIENCES.....	4,861	5,805	5.9	12.8

□ LESS THAN 0.05 PERCENT CHANGE.

TABLE C- 17A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	131,935	131,902	129,939	□	-1.5
U.S. SOURCES, TOTAL.....	129,864	129,757	127,816	-1.1	-1.5
U.S. GOVERNMENT.....	48,373	45,640	41,263	-5.6	-9.6
INSTITUTIONAL SUPPORT.....	47,445	48,915	48,298	3.1	-1.3
SELF-SUPPORT.....	24,123	25,155	28,801	4.3	14.5
ALL OTHER U.S. SOURCES.....	9,923	10,047	9,454	1.2	-5.9
FOREIGN SOURCES, TOTAL.....	2,071	2,145	2,123	3.6	-1.0
U.S. CITIZENS .....	105,768	104,724	103,400	-1.0	-1.3
U.S. SOURCES, TOTAL.....	105,730	104,677	103,361	-1.0	-1.3
U.S. GOVERNMENT.....	41,898	38,993	35,014	-6.9	-10.2
INSTITUTIONAL SUPPORT.....	36,902	38,101	38,268	3.2	.4
SELF-SUPPORT.....	19,421	20,002	22,859	3.0	14.3
ALL OTHER U.S. SOURCES.....	7,509	7,581	7,220	1.0	-4.8
FOREIGN SOURCES, TOTAL.....	38	47	39	#	#
FOREIGN STUDENTS.....	26,167	27,178	26,539	3.9	-2.4
U.S. SOURCES, TOTAL.....	24,134	25,080	24,455	3.9	-2.5
U.S. GOVERNMENT.....	6,475	6,647	6,249	2.7	-6.0
INSTITUTIONAL SUPPORT.....	10,543	10,814	10,030	2.6	-7.2
SELF-SUPPORT.....	4,702	5,153	5,942	9.6	15.3
ALL OTHER U.S. SOURCES.....	2,414	2,466	2,234	2.2	-9.4
FOREIGN SOURCES, TOTAL.....	2,033	2,098	2,084	3.2	-.7
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	38,972	36,453	32,988	-6.5	-9.5
U.S. SOURCES, TOTAL.....	37,778	35,198	31,694	-6.8	-10.0
U.S. GOVERNMENT.....	26,671	24,070	20,959	-9.8	-12.9
INSTITUTIONAL SUPPORT.....	6,777	6,740	6,628	-.5	-1.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	4,330	4,388	4,107	1.3	-6.4
FOREIGN SOURCES, TOTAL.....	1,194	1,255	1,294	5.1	3.1
U.S. CITIZENS .....	34,011	31,376	28,261	-7.7	-9.9
U.S. SOURCES, TOTAL.....	33,976	31,329	28,222	-7.8	-9.9
U.S. GOVERNMENT.....	25,938	23,297	20,166	-10.2	-13.4
INSTITUTIONAL SUPPORT.....	4,916	4,905	5,021	-.2	2.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	3,122	3,127	3,035	.2	-2.9
FOREIGN SOURCES, TOTAL.....	35	47	39	#	#
FOREIGN STUDENTS.....	4,961	5,077	4,727	2.3	-6.9
U.S. SOURCES, TOTAL.....	3,802	3,869	3,472	1.8	-10.3
U.S. GOVERNMENT.....	733	773	793	5.5	2.6
INSTITUTIONAL SUPPORT.....	1,861	1,835	1,607	-1.4	-12.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,208	1,261	1,072	4.4	-15.0
FOREIGN SOURCES, TOTAL.....	1,159	1,208	1,255	4.2	3.9
RESEARCH ASSISTANTSHIPS, TOTAL.....	28,506	28,500	27,249	□	-4.4
U.S. SOURCES, TOTAL.....	28,456	28,451	27,206	□	-4.4
U.S. GOVERNMENT.....	18,641	18,451	17,519	-1.0	-5.1
INSTITUTIONAL SUPPORT.....	7,700	8,034	7,588	4.3	-5.6
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	2,115	1,966	2,099	-7.0	6.8
FOREIGN SOURCES, TOTAL.....	50	49	43	#	#
U.S. CITIZENS .....	20,094	19,977	19,541	-.6	-2.2
U.S. SOURCES, TOTAL.....	20,092	19,977	19,541	-.6	-2.2
U.S. GOVERNMENT.....	13,238	12,876	12,359	-2.7	-4.0
INSTITUTIONAL SUPPORT.....	5,388	5,722	5,643	6.2	-1.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,466	1,379	1,539	-5.9	11.6
FOREIGN SOURCES, TOTAL.....	2	0	0	#	---
FOREIGN STUDENTS.....	8,412	8,523	7,708	1.3	-9.6
U.S. SOURCES, TOTAL.....	8,364	8,474	7,665	1.3	-9.5
U.S. GOVERNMENT.....	5,403	5,575	5,160	3.2	-7.4
INSTITUTIONAL SUPPORT.....	2,312	2,312	1,945	□	-15.9
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	649	587	560	-9.6	-4.6
FOREIGN SOURCES, TOTAL.....	48	49	43	#	#

TABLE C-17A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	31,221	32,616	32,335	4.5	-0.9
U.S. SOURCES, TOTAL.....	31,221	32,616	32,335	4.5	-0.9
U.S. GOVERNMENT.....	295	336	384	13.9	14.3
INSTITUTIONAL SUPPORT.....	30,790	32,015	31,729	4.0	-0.9
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	136	265	222	94.9	-16.2
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS .....	25,079	26,124	26,143	4.2	.1
U.S. SOURCES, TOTAL.....	25,079	26,124	26,143	4.2	.1
U.S. GOVERNMENT.....	22	245	319	10.4	30.2
INSTITUTIONAL SUPPORT.....	24,749	25,656	25,637	3.7	-0.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	108	223	187	106.5	-16.1
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	6,142	6,492	6,192	5.7	-4.6
U.S. SOURCES, TOTAL.....	6,142	6,492	6,192	5.7	-4.6
U.S. GOVERNMENT.....	73	91	65	24.7	-28.6
INSTITUTIONAL SUPPORT.....	6,041	6,359	6,092	5.3	-4.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	28	42	35	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	33,236	34,333	37,367	3.3	8.8
U.S. SOURCES, TOTAL.....	32,409	33,492	36,581	3.3	9.2
U.S. GOVERNMENT.....	2,766	2,783	2,401	-0.6	-13.7
INSTITUTIONAL SUPPORT.....	2,178	2,126	2,353	-2.4	10.7
SELF-SUPPORT.....	24,123	25,155	28,801	4.3	14.5
ALL OTHER U.S. SOURCES.....	3,342	3,428	3,026	2.6	-11.7
FOREIGN SOURCES, TOTAL.....	827	841	786	1.7	-6.5
U.S. CITIZENS .....	26,584	27,247	29,455	2.5	8.1
U.S. SOURCES, TOTAL.....	26,583	27,247	29,455	2.5	8.1
U.S. GOVERNMENT.....	2,500	2,575	2,170	3.0	-15.7
INSTITUTIONAL SUPPORT.....	1,849	1,818	1,967	-1.7	8.2
SELF-SUPPORT.....	19,421	20,002	22,859	3.0	14.3
ALL OTHER U.S. SOURCES.....	2,813	2,852	2,459	1.4	-13.8
FOREIGN SOURCES, TOTAL.....	1	0	0	*	---
FOREIGN STUDENTS.....	6,652	7,086	7,912	6.5	11.7
U.S. SOURCES, TOTAL.....	5,826	6,245	7,126	7.2	14.1
U.S. GOVERNMENT.....	266	208	231	-21.8	11.1
INSTITUTIONAL SUPPORT.....	329	308	386	-6.4	25.3
SELF-SUPPORT.....	4,702	5,153	5,942	9.6	15.3
ALL OTHER U.S. SOURCES.....	529	576	567	8.9	-1.5
FOREIGN SOURCES, TOTAL.....	826	841	786	1.8	-6.5

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.  
 □ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-17B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DEPARTMENT'S REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	1969	NUMBER		PERCENT CHANGE	
		1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	28,793	29,534	28,945	2.6	-2.0
U.S. SOURCES, TOTAL.....	27,869	28,664	28,055	2.9	-2.1
U.S. GOVERNMENT.....	11,527	11,412	10,314	-1.0	-9.6
INSTITUTIONAL SUPPORT.....	7,533	7,898	7,704	4.8	-2.5
SELF-SUPPORT.....	5,023	5,873	6,882	16.9	17.2
ALL OTHER U.S. SOURCES.....	3,786	3,481	3,155	-8.1	-9.4
FOREIGN SOURCES, TOTAL.....	924	870	890	-5.8	2.3
U.S. CITIZENS .....	18,617	18,841	18,581	1.2	-1.4
U.S. SOURCES, TOTAL.....	18,612	18,828	18,567	1.2	-1.4
U.S. GOVERNMENT.....	8,711	8,345	7,532	-4.2	-9.7
INSTITUTIONAL SUPPORT.....	4,219	4,560	4,742	8.1	4.0
SELF-SUPPORT.....	2,816	3,251	3,879	15.4	19.3
ALL OTHER U.S. SOURCES.....	2,866	2,672	2,414	-6.8	-9.7
FOREIGN SOURCES, TOTAL.....	5	13	14	*	#
FOREIGN STUDENTS.....	10,176	10,693	10,364	5.1	-3.1
U.S. SOURCES, TOTAL.....	9,257	9,836	9,488	6.3	-3.5
U.S. GOVERNMENT.....	2,816	3,067	2,782	8.9	-9.3
INSTITUTIONAL SUPPORT.....	3,514	3,338	2,962	7	-11.3
SELF-SUPPORT.....	2,207	2,622	3,003	18.8	14.5
ALL OTHER U.S. SOURCES.....	920	809	741	-12.1	-8.4
FOREIGN SOURCES, TOTAL.....	919	857	876	-6.7	2.2
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	7,571	7,083	6,334	-6.4	-10.6
U.S. SOURCES, TOTAL.....	7,165	6,695	5,913	-6.6	-11.7
U.S. GOVERNMENT.....	4,645	4,196	3,509	-9.7	-16.4
INSTITUTIONAL SUPPORT.....	1,074	1,157	1,110	7.7	-4.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,446	1,342	1,294	-7.2	-3.6
FOREIGN SOURCES, TOTAL.....	406	388	421	-4.4	8.5
U.S. CITIZENS .....	6,171	5,736	5,120	-7.0	-10.7
U.S. SOURCES, TOTAL.....	6,166	5,723	5,106	-7.2	-10.8
U.S. GOVERNMENT.....	4,469	4,009	3,366	-10.3	-16.0
INSTITUTIONAL SUPPORT.....	563	642	694	14.0	8.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,134	1,072	1,046	-5.5	-2.4
FOREIGN SOURCES, TOTAL.....	5	13	14	*	*
FOREIGN STUDENTS.....	1,400	1,347	1,214	-3.8	-9.9
U.S. SOURCES, TOTAL.....	999	972	807	-2.7	-17.0
U.S. GOVERNMENT.....	176	187	143	6.3	-23.5
INSTITUTIONAL SUPPORT.....	511	515	416	8	-19.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	312	270	248	-13.5	-8.1
FOREIGN SOURCES, TOTAL.....	401	375	407	-6.5	8.5
RESEARCH ASSISTANTSHIPS, TOTAL.....	8,474	8,824	8,451	4.1	-4.2
U.S. SOURCES, TOTAL.....	8,462	8,803	8,440	4.0	-4.1
U.S. GOVERNMENT.....	5,552	5,869	5,566	5.7	-5.2
INSTITUTIONAL SUPPORT.....	2,165	2,293	2,145	5.9	-6.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	745	641	729	-14.0	13.7
FOREIGN SOURCES, TOTAL.....	12	21	11	*	*
U.S. CITIZENS .....	4,504	4,688	4,761	4.1	1.6
U.S. SOURCES, TOTAL.....	4,504	4,688	4,761	4.1	1.6
U.S. GOVERNMENT.....	3,035	3,110	3,056	2.5	-1.7
INSTITUTIONAL SUPPORT.....	1,058	1,215	1,253	14.8	3.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	411	363	452	-11.7	24.5
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	3,970	4,136	3,690	4.2	-10.8
U.S. SOURCES, TOTAL.....	3,958	4,115	3,679	4.0	-10.6
U.S. GOVERNMENT.....	2,517	2,759	2,510	9.6	-9.0
INSTITUTIONAL SUPPORT.....	1,107	1,078	892	-2.6	-17.3
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	334	278	277	-16.8	-0.4
FOREIGN SOURCES, TOTAL.....	12	21	11	*	*

TABLE C-17B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER	PERCENT CHANGE	
		1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....			
U.S. SOURCES, TOTAL.....	3,951	4,154	4,121
U.S. GOVERNMENT.....	3,951	4,154	4,121
INSTITUTIONAL SUPPORT.....	68	62	64
SELF-SUPPORT.....	3,861	4,075	4,037
ALL OTHER U.S. SOURCES.....	0	0	0
FOREIGN SOURCES, TOTAL.....	22	17	20
U.S. CITIZENS.....	0	0	0
U.S. SOURCES, TOTAL.....	2,317	2,489	2,595
U.S. GOVERNMENT.....	2,317	2,489	2,595
INSTITUTIONAL SUPPORT.....	26	29	46
SELF-SUPPORT.....	2,276	2,466	2,536
ALL OTHER U.S. SOURCES.....	0	0	0
FOREIGN SOURCES, TOTAL.....	15	14	13
FOREIGN STUDENTS.....	1,634	1,665	1,526
U.S. SOURCES, TOTAL.....	1,634	1,665	1,526
U.S. GOVERNMENT.....	42	33	18
INSTITUTIONAL SUPPORT.....	1,585	1,629	1,501
SELF-SUPPORT.....	0	0	0
ALL OTHER U.S. SOURCES.....	7	3	7
FOREIGN SOURCES, TOTAL.....	0	0	0
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	8,797	9,473	10,039
U.S. SOURCES, TOTAL.....	8,291	9,012	9,581
U.S. GOVERNMENT.....	1,262	1,285	1,175
INSTITUTIONAL SUPPORT.....	433	373	412
SELF-SUPPORT.....	5,023	5,873	6,882
ALL OTHER U.S. SOURCES.....	1,573	1,481	1,112
FOREIGN SOURCES, TOTAL.....	506	461	458
U.S. CITIZENS.....	5,625	5,928	6,105
U.S. SOURCES, TOTAL.....	5,625	5,928	6,105
U.S. GOVERNMENT.....	1,181	1,197	1,064
INSTITUTIONAL SUPPORT.....	322	257	259
SELF-SUPPORT.....	2,816	3,251	3,879
ALL OTHER U.S. SOURCES.....	1,306	1,223	903
FOREIGN SOURCES, TOTAL.....	0	0	0
FOREIGN STUDENTS.....	3,172	3,545	3,934
U.S. SOURCES, TOTAL.....	2,666	3,084	3,476
U.S. GOVERNMENT.....	81	88	111
INSTITUTIONAL SUPPORT.....	111	116	153
SELF-SUPPORT.....	2,207	2,622	3,003
ALL OTHER U.S. SOURCES.....	267	258	209
FOREIGN SOURCES, TOTAL.....	506	461	458

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.



TABLE C-17C.. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS.  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	1969	NUMBER	PERCENT CHANGE	
			1969-70	1970-71
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	29,253	28,264	-3.4	-4.3
U.S. SOURCES, TOTAL.....	28,975	27,999	-3.4	-4.5
U.S. GOVERNMENT.....	12,885	11,790	-8.5	-11.0
INSTITUTIONAL SUPPORT.....	12,132	12,236	1.7	-9
SELF-SUPPORT.....	2,324	2,556	-5.9	16.9
ALL OTHER U.S. SOURCES.....	1,634	1,679	2.8	-7.7
FOREIGN SOURCES, TOTAL.....	278	312	-4.7	17.7
U.S. CITIZENS .....	23,719	22,612	-4.7	-4.7
U.S. SOURCES, TOTAL.....	23,704	22,602	-4.6	-4.6
U.S. GOVERNMENT.....	11,089	10,030	-9.6	-12.9
INSTITUTIONAL SUPPORT.....	9,466	9,504	.5	-1
SELF-SUPPORT.....	1,872	2,089	-5.3	17.8
ALL OTHER U.S. SOURCES.....	1,277	1,224	1.0	-5.1
FOREIGN SOURCES, TOTAL.....	15	6	*	*
FOREIGN STUDENTS.....	5,534	5,496	2.1	-2.8
U.S. SOURCES, TOTAL.....	5,271	5,190	2.4	-3.8
U.S. GOVERNMENT.....	1,796	1,665	-2.0	-5.4
INSTITUTIONAL SUPPORT.....	2,666	2,732	6.3	-3.6
SELF-SUPPORT.....	452	467	-8.4	12.8
ALL OTHER U.S. SOURCES.....	357	326	9.0	-16.2
FOREIGN SOURCES, TOTAL.....	263	306	-3.0	20.0
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	6,878	5,958	-13.4	-15.6
U.S. SOURCES, TOTAL.....	6,686	5,774	-13.6	-16.5
U.S. GOVERNMENT.....	4,708	3,052	-17.7	-21.2
INSTITUTIONAL SUPPORT.....	1,245	1,169	1.0	-7.1
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	733	602	-12.4	-6.2
FOREIGN SOURCES, TOTAL.....	192	204	-4.2	10.9
U.S. CITIZENS .....	6,109	5,213	-14.7	-16.7
U.S. SOURCES, TOTAL.....	6,095	5,203	-14.6	-16.6
U.S. GOVERNMENT.....	4,656	2,989	-17.7	-22.0
INSTITUTIONAL SUPPORT.....	880	885	1.8	-1.2
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	559	464	-15.4	-1.9
FOREIGN SOURCES, TOTAL.....	14	6	*	*
FOREIGN STUDENTS.....	769	683	-3.1	-8.3
U.S. SOURCES, TOTAL.....	591	485	-3.4	-15.1
U.S. GOVERNMENT.....	52	63	-23.1	*
INSTITUTIONAL SUPPORT.....	365	284	-8	-21.5
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	174	138	-2.9	-18.3
FOREIGN SOURCES, TOTAL.....	178	198	-2.2	13.8
RESEARCH ASSISTANTSHIPS, TOTAL.....	9,218	8,248	-4.5	-6.3
U.S. SOURCES, TOTAL.....	9,208	8,238	-4.5	-6.3
U.S. GOVERNMENT.....	7,719	6,879	-4.5	-6.7
INSTITUTIONAL SUPPORT.....	948	862	-9.0	-1
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	541	497	3.0	-10.8
FOREIGN SOURCES, TOTAL.....	10	10	*	*
U.S. CITIZENS .....	7,175	6,349	-5.2	-6.6
U.S. SOURCES, TOTAL.....	7,175	6,349	-5.2	-6.6
U.S. GOVERNMENT.....	6,019	5,309	-5.2	-7.0
INSTITUTIONAL SUPPORT.....	722	654	-9.1	-3
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	434	386	.2	-11.3
FOREIGN SOURCES, TOTAL.....	0	0	---	---
FOREIGN STUDENTS.....	2,043	1,899	-2.1	-5.1
U.S. SOURCES, TOTAL.....	2,033	1,995	-1.9	-5.3
U.S. GOVERNMENT.....	1,700	1,570	-2.0	-5.8
INSTITUTIONAL SUPPORT.....	226	208	-8.4	-2
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	107	111	14.0	-9.0
FOREIGN SOURCES, TOTAL.....	10	10	*	*

TABLE C- 170. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	9,797	10,199	10,081	4.1	-1.2
U.S. SOURCES, TOTAL.....	9,797	10,199	10,081	4.1	-1.2
U.S. GOVERNMENT.....	9,797	10,199	10,081	4.1	-1.2
INSTITUTIONAL SUPPORT.....	63	106	103	68.3	-2.8
SELF-SUPPORT.....	9,726	9,996	9,929	2.8	-0.7
ALL OTHER U.S. SOURCES.....	8	97	49	*	-49.5
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS.....	7,754	7,929	7,859	2.3	-0.9
U.S. SOURCES, TOTAL.....	7,754	7,929	7,859	2.3	-0.9
U.S. GOVERNMENT.....	52	75	85	44.2	13.3
INSTITUTIONAL SUPPORT.....	7,697	7,775	7,735	1.0	-0.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	79	39	*	-50.6
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	2,043	2,270	2,222	11.1	-2.1
U.S. SOURCES, TOTAL.....	2,043	2,270	2,222	11.1	-2.1
U.S. GOVERNMENT.....	11	31	18	*	*
INSTITUTIONAL SUPPORT.....	2,029	2,221	2,194	9.5	-1.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	3	18	10	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	3,360	3,307	3,700	-1.6	11.9
U.S. SOURCES, TOTAL.....	3,284	3,232	3,602	-1.6	11.4
U.S. GOVERNMENT.....	395	436	368	10.4	-15.6
INSTITUTIONAL SUPPORT.....	213	226	276	6.1	22.1
SELF-SUPPORT.....	2,324	2,187	2,556	-5.9	16.9
ALL OTHER U.S. SOURCES.....	352	383	402	8.8	5.0
FOREIGN SOURCES, TOTAL.....	76	75	98	-1.3	30.7
U.S. CITIZENS.....	2,681	2,671	3,008	-.4	12.6
U.S. SOURCES, TOTAL.....	2,680	2,671	3,008	-.3	12.6
U.S. GOVERNMENT.....	362	413	354	14.1	-14.3
INSTITUTIONAL SUPPORT.....	167	182	230	9.0	26.4
SELF-SUPPORT.....	1,872	1,773	2,089	-5.3	17.8
ALL OTHER U.S. SOURCES.....	279	303	335	8.6	10.6
FOREIGN SOURCES, TOTAL.....	1	0	0	*	---
FOREIGN STUDENTS.....	679	636	692	-6.3	8.8
U.S. SOURCES, TOTAL.....	604	561	594	-7.1	5.9
U.S. GOVERNMENT.....	33	23	14	*	*
INSTITUTIONAL SUPPORT.....	46	44	46	*	*
SELF-SUPPORT.....	452	414	467	-8.4	12.8
ALL OTHER U.S. SOURCES.....	73	80	67	9.6	-16.3
FOREIGN SOURCES, TOTAL.....	75	75	98	0	30.7

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.  
 0 LESS THAN 0.05 PERCENT CHANGE.

TABLE C-17D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
<b>SOURCE OF MAJOR SUPPORT</b>					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	11,349	11,500	11,008	1.3	-4.3
U.S. SOURCES, TOTAL.....	11,231	11,355	10,877	1.1	-4.2
U.S. GOVERNMENT.....	3,104	2,737	2,201	-11.8	-19.6
INSTITUTIONAL SUPPORT.....	5,734	6,211	5,852	8.3	-5.8
SELF-SUPPORT.....	1,969	1,943	2,383	-1.3	22.6
ALL OTHER U.S. SOURCES.....	424	464	441	9.4	-5.0
FOREIGN SOURCES, TOTAL.....	118	145	131	22.9	-9.7
U.S. CITIZENS.....	9,310	9,340	8,840	.3	-5.4
U.S. SOURCES, TOTAL.....	9,306	9,339	8,831	.4	-5.4
U.S. GOVERNMENT.....	2,798	2,394	1,900	-14.4	-20.6
INSTITUTIONAL SUPPORT.....	4,536	4,900	4,722	9.4	-4.9
SELF-SUPPORT.....	1,644	1,600	1,844	-2.4	14.9
ALL OTHER U.S. SOURCES.....	328	376	365	14.6	-2.9
FOREIGN SOURCES, TOTAL.....	4	1	9	*	*
FOREIGN STUDENTS.....	2,039	2,160	2,168	5.9	.4
U.S. SOURCES, TOTAL.....	1,925	2,016	2,046	4.7	1.5
U.S. GOVERNMENT.....	306	343	301	12.1	-12.2
INSTITUTIONAL SUPPORT.....	1,198	1,247	1,130	4.1	-9.4
SELF-SUPPORT.....	325	338	539	4.0	59.5
ALL OTHER U.S. SOURCES.....	96	88	76	-8.3	-13.6
FOREIGN SOURCES, TOTAL.....	114	144	122	26.3	-15.3
<b>FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....</b>					
U.S. SOURCES, TOTAL.....	2,564	2,270	2,039	-10.4	-13.7
U.S. GOVERNMENT.....	1,891	1,620	1,946	-11.5	-14.3
INSTITUTIONAL SUPPORT.....	497	469	462	-5.6	-1.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	176	181	208	2.8	14.9
FOREIGN SOURCES, TOTAL.....	75	94	93	25.3	-1.1
U.S. CITIZENS.....	2,306	2,068	1,764	-10.3	-14.7
U.S. SOURCES, TOTAL.....	2,302	2,067	1,755	-10.2	-15.1
U.S. GOVERNMENT.....	1,871	1,607	1,261	-14.1	-21.5
INSTITUTIONAL SUPPORT.....	309	316	327	2.3	3.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	122	144	167	18.0	16.0
FOREIGN SOURCES, TOTAL.....	4	1	9	*	*
FOREIGN STUDENTS.....	333	296	275	-11.1	-7.1
U.S. SOURCES, TOTAL.....	262	203	191	-22.5	-5.9
U.S. GOVERNMENT.....	20	13	15	*	*
INSTITUTIONAL SUPPORT.....	188	153	135	-18.6	-11.8
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	54	37	41	-31.5	*
FOREIGN SOURCES, TOTAL.....	71	93	84	31.0	-9.7
<b>RESEARCH ASSISTANTSHIPS, TOTAL.....</b>					
U.S. SOURCES, TOTAL.....	1,135	1,208	1,005	6.4	-16.8
U.S. GOVERNMENT.....	812	822	708	6.3	-17.0
INSTITUTIONAL SUPPORT.....	294	359	288	22.1	-14.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	29	25	6	*	*
FOREIGN SOURCES, TOTAL.....	0	1	3	---	*
U.S. CITIZENS.....	796	804	669	1.0	-16.8
U.S. SOURCES, TOTAL.....	796	804	669	1.0	-16.8
U.S. GOVERNMENT.....	556	524	443	-5.8	-15.5
INSTITUTIONAL SUPPORT.....	222	263	221	18.5	-16.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	18	17	5	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	339	404	336	19.2	-16.8
U.S. SOURCES, TOTAL.....	339	403	333	18.9	-17.4
U.S. GOVERNMENT.....	256	299	265	16.8	-11.4
INSTITUTIONAL SUPPORT.....	72	96	67	33.3	-30.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	11	8	1	*	*
FOREIGN SOURCES, TOTAL.....	0	1	3	---	*

TABLE C-17D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	4,687	5,131	4,951	9.5	-3.5
U.S. SOURCES, TOTAL.....	4,687	5,131	4,951	9.5	-3.5
U.S. GOVERNMENT.....	42	30	41	*	*
INSTITUTIONAL SUPPORT.....	4,640	5,078	4,873	9.4	-4.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	23	37	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS.....	3,781	4,161	4,059	10.1	-2.5
U.S. SOURCES, TOTAL.....	3,781	4,161	4,059	10.1	-2.5
U.S. GOVERNMENT.....	40	22	37	*	*
INSTITUTIONAL SUPPORT.....	3,740	4,125	3,987	10.3	-3.3
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1	14	35	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	906	970	892	7.1	-8.0
U.S. SOURCES, TOTAL.....	906	970	892	7.1	-8.0
U.S. GOVERNMENT.....	2	8	4	*	*
INSTITUTIONAL SUPPORT.....	900	953	886	5.9	-7.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	4	9	2	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	2,888	2,797	3,013	-3.2	7.7
U.S. SOURCES, TOTAL.....	2,845	2,747	2,978	-3.4	8.4
U.S. GOVERNMENT.....	399	264	176	-26.5	-33.3
INSTITUTIONAL SUPPORT.....	303	305	229	.7	-24.9
SELF-SUPPORT.....	1,969	1,943	2,383	-1.3	22.6
ALL OTHER U.S. SOURCES.....	214	235	190	9.8	-19.1
FOREIGN SOURCES, TOTAL.....	43	50	35	*	*
U.S. CITIZENS.....	2,427	2,307	2,348	-4.9	1.8
U.S. SOURCES, TOTAL.....	2,427	2,307	2,348	-4.9	1.8
U.S. GOVERNMENT.....	331	241	159	-27.2	-34.0
INSTITUTIONAL SUPPORT.....	265	260	187	-1.9	-28.1
SELF-SUPPORT.....	1,844	1,605	1,844	-2.4	14.9
ALL OTHER U.S. SOURCES.....	187	201	158	7.5	-21.4
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	461	490	665	6.3	35.7
U.S. SOURCES, TOTAL.....	418	440	630	5.3	43.2
U.S. GOVERNMENT.....	28	23	17	*	*
INSTITUTIONAL SUPPORT.....	38	45	42	*	*
SELF-SUPPORT.....	325	338	539	4.0	59.5
ALL OTHER U.S. SOURCES.....	27	34	32	*	*
FOREIGN SOURCES, TOTAL.....	43	50	35	*	*

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-17b. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	1969	NUMBER	PERCENT CHANGE	
			1969-70	1970-71
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	24,645	24,739	0.4	0.1
U.S. SOURCES, TOTAL.....	24,328	24,337		
U.S. GOVERNMENT.....	10,237	9,553	-6.7	-8.8
INSTITUTIONAL SUPPORT.....	8,892	9,095	2.3	7.7
SELF-SUPPORT.....	3,665	4,090	11.8	17.6
ALL OTHER U.S. SOURCES.....	1,534	1,590	3.7	8.7
FOREIGN SOURCES, TOTAL.....	317	402	26.8	-17.7
U.S. CITIZENS.....	20,888	20,980	.4	.4
U.S. SOURCES, TOTAL.....	20,882	20,963	.4	.4
U.S. GOVERNMENT.....	9,189	8,568	-6.8	-8.8
INSTITUTIONAL SUPPORT.....	7,487	7,725	2.6	8.8
SELF-SUPPORT.....	3,154	4,292	15.3	18.1
ALL OTHER U.S. SOURCES.....	1,072	1,096	2.2	11.9
FOREIGN SOURCES, TOTAL.....	6	17	*	*
FOREIGN STUDENTS.....	3,757	3,759	.1	-1.7
U.S. SOURCES, TOTAL.....	3,446	3,374	-2.1	-2.1
U.S. GOVERNMENT.....	1,048	985	-6.0	-8.2
INSTITUTIONAL SUPPORT.....	1,425	1,431	.4	.2
SELF-SUPPORT.....	511	528	3.5	13.8
ALL OTHER U.S. SOURCES.....	462	502	8.7	1.6
FOREIGN SOURCES, TOTAL.....	311	385	23.8	-14.8
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	8,613	8,092	-6.0	-8.5
U.S. SOURCES, TOTAL.....	8,429	7,859	-6.8	-8.2
U.S. GOVERNMENT.....	6,984	6,289	-9.8	-10.8
INSTITUTIONAL SUPPORT.....	920	964	4.8	6.4
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	525	596	13.5	-4.4
FOREIGN SOURCES, TOTAL.....	184	233	26.6	-18.5
U.S. CITIZENS.....	7,769	7,177	-7.6	-8.7
U.S. SOURCES, TOTAL.....	7,765	7,160	-7.8	-8.5
U.S. GOVERNMENT.....	6,720	6,042	-10.1	-10.9
INSTITUTIONAL SUPPORT.....	750	764	1.9	4.1
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	295	354	20.0	4.8
FOREIGN SOURCES, TOTAL.....	4	17	*	*
FOREIGN STUDENTS.....	844	915	8.4	-6.6
U.S. SOURCES, TOTAL.....	664	699	5.3	-4.4
U.S. GOVERNMENT.....	264	257	-2.7	-7.4
INSTITUTIONAL SUPPORT.....	170	200	17.6	15.5
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	230	242	5.2	-17.8
FOREIGN SOURCES, TOTAL.....	180	216	20.0	-13.4
RESEARCH ASSISTANTSHIPS, TOTAL.....	5,626	5,536	-.4	-2.0
U.S. SOURCES, TOTAL.....	5,605	5,519	-.5	-2.0
U.S. GOVERNMENT.....	2,896	2,717	-6.2	-4.9
INSTITUTIONAL SUPPORT.....	2,153	2,214	3.3	2.9
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	556	588	5.8	6.5
FOREIGN SOURCES, TOTAL.....	21	17	-.7	*
U.S. CITIZENS.....	4,210	4,338	2.4	.7
U.S. SOURCES, TOTAL.....	4,208	4,338	2.4	.7
U.S. GOVERNMENT.....	2,198	2,136	-2.8	-2.9
INSTITUTIONAL SUPPORT.....	1,598	1,738	8.8	2.4
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	412	464	12.6	12.6
FOREIGN SOURCES, TOTAL.....	2	0	---	---
FOREIGN STUDENTS.....	1,416	1,198	-15.4	-10.6
U.S. SOURCES, TOTAL.....	1,397	1,181	-15.5	-10.9
U.S. GOVERNMENT.....	698	581	-16.6	-11.7
INSTITUTIONAL SUPPORT.....	555	476	-14.2	-9.7
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	144	124	-14.0	-11.4
FOREIGN SOURCES, TOTAL.....	19	17	-10.5	*

TABLE C-17B. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	5,575	5,754	5,765	3.2	0.2
U.S. SOURCES, TOTAL.....	5,575	5,754	5,765	3.2	.2
U.S. GOVERNMENT.....	47	89	88	*	-1.1
INSTITUTIONAL SUPPORT.....	5,479	5,603	5,597	2.3	-1.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	49	62	80	*	29.0
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS.....	4,910	5,068	5,061	3.2	-1.1
U.S. SOURCES, TOTAL.....	4,910	5,068	5,061	3.2	-1.1
U.S. GOVERNMENT.....	39	74	73	*	-1.4
INSTITUTIONAL SUPPORT.....	4,828	4,937	4,918	2.3	-.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	43	57	70	*	22.8
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	665	686	704	3.2	2.6
U.S. SOURCES, TOTAL.....	665	686	704	3.2	2.6
U.S. GOVERNMENT.....	8	15	15	*	*
INSTITUTIONAL SUPPORT.....	651	666	679	2.3	2.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	6	5	10	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	4,831	5,244	6,044	8.5	15.3
U.S. SOURCES, TOTAL.....	4,719	5,090	5,920	7.9	16.3
U.S. GOVERNMENT.....	310	307	288	-1.0	-6.2
INSTITUTIONAL SUPPORT.....	340	304	322	-10.6	5.9
SELF-SUPPORT.....	3,665	4,099	4,820	11.8	17.6
ALL OTHER U.S. SOURCES.....	404	380	490	-5.9	28.9
FOREIGN SOURCES, TOTAL.....	112	154	124	37.5	-19.5
U.S. CITIZENS.....	3,999	4,426	5,105	10.7	15.3
U.S. SOURCES, TOTAL.....	3,999	4,426	5,105	10.7	15.3
U.S. GOVERNMENT.....	232	252	218	8.6	-13.5
INSTITUTIONAL SUPPORT.....	291	266	274	-8.6	3.0
SELF-SUPPORT.....	3,154	3,635	4,292	15.3	18.1
ALL OTHER U.S. SOURCES.....	322	273	321	-15.2	17.6
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	832	818	939	-1.7	14.8
U.S. SOURCES, TOTAL.....	720	664	815	-7.8	22.7
U.S. GOVERNMENT.....	78	55	70	-29.5	27.3
INSTITUTIONAL SUPPORT.....	49	38	48	*	*
SELF-SUPPORT.....	511	464	528	-9.2	13.8
ALL OTHER U.S. SOURCES.....	82	107	169	30.5	57.9
FOREIGN SOURCES, TOTAL.....	112	154	124	37.5	-19.5

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.  
 † LESS THAN 0.05 PERCENT CHANGE.

TABLE C.-17F. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	11,142	11,272	11,817	1.2	4.8
U.S. SOURCES, TOTAL.....	11,105	11,243	11,778	1.2	4.8
U.S. GOVERNMENT.....	4,903	4,735	4,526	-3.4	-4.4
INSTITUTIONAL SUPPORT.....	3,624	3,852	4,012	6.3	4.2
SELF-SUPPORT.....	1,940	2,072	2,580	6.8	24.5
ALL OTHER U.S. SOURCES.....	638	584	660	-8.5	13.0
FOREIGN SOURCES, TOTAL.....	37	29	39	*	*
U.S. CITIZENS .....	10,660	10,818	11,339	1.5	4.8
U.S. SOURCES, TOTAL.....	10,657	10,817	11,337	1.5	4.8
U.S. GOVERNMENT.....	4,802	4,647	4,424	-3.2	-4.8
INSTITUTIONAL SUPPORT.....	3,397	3,629	3,809	6.8	5.0
SELF-SUPPORT.....	1,842	1,998	2,445	8.5	24.5
ALL OTHER U.S. SOURCES.....	616	543	617	-11.9	13.6
FOREIGN SOURCES, TOTAL.....	3	1	2	*	*
FOREIGN STUDENTS.....	482	454	478	-5.8	5.3
U.S. SOURCES, TOTAL.....	448	426	441	-4.9	3.5
U.S. GOVERNMENT.....	101	88	102	-12.9	15.9
INSTITUTIONAL SUPPORT.....	227	223	203	-1.8	-9.0
SELF-SUPPORT.....	98	74	93	-24.5	25.7
ALL OTHER U.S. SOURCES.....	22	41	43	*	*
FOREIGN SOURCES, TOTAL.....	34	28	17	*	*
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	4,559	4,493	4,225	-1.5	-6.0
U.S. SOURCES, TOTAL.....	4,530	4,477	4,196	-1.2	-6.3
U.S. GOVERNMENT.....	3,804	3,657	3,371	-3.9	-7.8
INSTITUTIONAL SUPPORT.....	557	664	628	19.2	-5.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	169	156	197	-7.7	26.3
FOREIGN SOURCES, TOTAL.....	29	16	29	*	*
U.S. CITIZENS .....	4,444	4,378	4,122	-1.5	-5.8
U.S. SOURCES, TOTAL.....	4,441	4,377	4,120	-1.4	-5.9
U.S. GOVERNMENT.....	3,783	3,639	3,350	-3.8	-7.9
INSTITUTIONAL SUPPORT.....	499	602	590	20.6	-2.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	159	136	180	-14.5	32.4
FOREIGN SOURCES, TOTAL.....	3	1	2	*	*
FOREIGN STUDENTS.....	115	115	103	0	-10.4
U.S. SOURCES, TOTAL.....	89	100	76	12.4	-24.0
U.S. GOVERNMENT.....	21	18	21	*	*
INSTITUTIONAL SUPPORT.....	58	62	38	6.9	-38.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	10	20	17	*	*
FOREIGN SOURCES, TOTAL.....	26	15	27	*	*
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,539	1,561	1,589	1.4	1.8
U.S. SOURCES, TOTAL.....	1,538	1,559	1,587	1.4	1.8
U.S. GOVERNMENT.....	939	910	1,006	-3.1	10.5
INSTITUTIONAL SUPPORT.....	540	576	482	6.7	-16.3
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	59	73	99	23.7	35.6
FOREIGN SOURCES, TOTAL.....	1	2	2	*	*
U.S. CITIZENS .....	1,422	1,447	1,471	1.8	1.7
U.S. SOURCES, TOTAL.....	1,422	1,447	1,471	1.8	1.7
U.S. GOVERNMENT.....	864	844	928	-2.3	10.0
INSTITUTIONAL SUPPORT.....	503	536	455	6.6	-15.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	55	67	88	21.8	31.3
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	117	114	118	-2.6	3.5
U.S. SOURCES, TOTAL.....	116	112	116	-3.4	3.6
U.S. GOVERNMENT.....	75	66	78	-12.0	18.2
INSTITUTIONAL SUPPORT.....	37	40	27	*	*
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	4	6	11	*	*
FOREIGN SOURCES, TOTAL.....	1	2	2	*	*



TABLE C- 17B. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	1969	NUMBER		PERCENT CHANGE	
		1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	2,104	2,212	2,299	5.1	3.9
U.S. SOURCES, TOTAL.....	2,104	2,212	2,299	5.1	3.9
U.S. GOVERNMENT.....	9	24	13	*	*
INSTITUTIONAL SUPPORT.....	2,090	2,143	2,279	2.5	6.3
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	45	7	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS .....	1,983	2,101	2,178	6.0	3.7
U.S. SOURCES, TOTAL.....	1,983	2,101	2,178	6.0	3.7
U.S. GOVERNMENT.....	9	22	13	*	*
INSTITUTIONAL SUPPORT.....	1,969	2,036	2,158	3.4	6.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	43	7	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	121	111	121	-8.3	9.0
U.S. SOURCES, TOTAL.....	121	111	121	-8.3	9.0
U.S. GOVERNMENT.....	0	2	0	---	*
INSTITUTIONAL SUPPORT.....	121	107	121	-11.6	13.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	0	2	0	---	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	2,940	3,006	3,704	2.2	23.2
U.S. SOURCES, TOTAL.....	2,933	2,995	3,696	2.1	23.4
U.S. GOVERNMENT.....	151	144	136	-4.6	-5.6
INSTITUTIONAL SUPPORT.....	437	469	623	7.3	32.8
SELF-SUPPORT.....	1,940	2,072	2,580	6.8	24.5
ALL OTHER U.S. SOURCES.....	405	310	357	-23.5	15.2
FOREIGN SOURCES, TOTAL.....	7	11	8	*	*
U.S. CITIZENS .....	2,811	2,892	3,568	2.9	23.4
U.S. SOURCES, TOTAL.....	2,811	2,892	3,568	2.9	23.4
U.S. GOVERNMENT.....	146	142	139	-2.7	-6.3
INSTITUTIONAL SUPPORT.....	426	455	606	6.8	33.2
SELF-SUPPORT.....	1,842	1,998	2,487	8.5	24.5
ALL OTHER U.S. SOURCES.....	397	297	342	-25.2	15.2
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	129	114	136	-11.6	19.3
U.S. SOURCES, TOTAL.....	122	103	128	-15.6	24.3
U.S. GOVERNMENT.....	5	2	3	*	*
INSTITUTIONAL SUPPORT.....	11	14	17	*	*
SELF-SUPPORT.....	98	74	93	-24.5	25.7
ALL OTHER U.S. SOURCES.....	8	13	15	*	*
FOREIGN SOURCES, TOTAL.....	7	11	8	*	*

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.  
 0 LESS THAN 0.05 PERCENT CHANGE.

TABLE C-37B. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	26,753	26,593	26,361	-0.6	-0.9
U.S. SOURCES, TOTAL.....	26,356	26,159	25,941	-7	-8
U.S. GOVERNMENT.....	5,717	5,413	5,106	-5.3	-5.7
INSTITUTIONAL SUPPORT.....	9,530	9,516	9,335	-1	-1.9
SELF-SUPPORT.....	9,202	8,981	9,580	-2.4	6.7
ALL OTHER U.S. SOURCES.....	1,907	2,249	1,920	17.9	-14.6
FOREIGN SOURCES, TOTAL.....	397	434	420	9.3	-3.2
U.S. CITIZENS .....	22,574	22,133	22,024	-2.0	-5
U.S. SOURCES, TOTAL.....	22,569	22,128	22,019	-2.0	-5
U.S. GOVERNMENT.....	5,309	5,009	4,611	-5.7	-7.9
INSTITUTIONAL SUPPORT.....	7,817	7,775	7,766	-5	-1
SELF-SUPPORT.....	8,093	7,740	8,268	-4.4	6.8
ALL OTHER U.S. SOURCES.....	1,350	1,604	1,374	18.8	-14.3
FOREIGN SOURCES, TOTAL.....	5	5	5	*	*
FOREIGN STUDENTS.....	4,179	4,460	4,337	6.7	-2.8
U.S. SOURCES, TOTAL.....	3,787	4,031	3,922	6.4	-2.7
U.S. GOVERNMENT.....	408	404	495	-1.0	22.5
INSTITUTIONAL SUPPORT.....	1,713	1,741	1,569	1.6	-9.9
SELF-SUPPORT.....	1,109	1,241	1,312	11.9	5.7
ALL OTHER U.S. SOURCES.....	357	645	546	15.8	-15.3
FOREIGN SOURCES, TOTAL.....	392	429	415	9.4	-3.3
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	8,712	8,463	7,956	-2.9	-6.0
U.S. SOURCES, TOTAL.....	8,404	8,123	7,599	-3.3	-6.5
U.S. GOVERNMENT.....	4,639	4,424	4,130	-4.6	-6.6
INSTITUTIONAL SUPPORT.....	2,484	2,228	2,233	-10.3	-2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,281	1,471	1,236	14.8	-16.0
FOREIGN SOURCES, TOTAL.....	308	340	357	10.4	5.0
U.S. CITIZENS .....	7,212	6,804	6,359	-5.7	-6.5
U.S. SOURCES, TOTAL.....	7,207	6,799	6,354	-5.7	-6.5
U.S. GOVERNMENT.....	4,439	4,166	3,817	-6.2	-8.4
INSTITUTIONAL SUPPORT.....	1,915	1,685	1,730	-12.0	2.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	853	948	807	11.1	-14.9
FOREIGN SOURCES, TOTAL.....	5	5	5	*	*
FOREIGN STUDENTS.....	1,500	1,659	1,597	10.6	-3.7
U.S. SOURCES, TOTAL.....	1,197	1,324	1,245	10.6	-6.0
U.S. GOVERNMENT.....	200	258	313	29.0	21.3
INSTITUTIONAL SUPPORT.....	569	543	503	-4.6	-7.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	428	523	429	22.2	-18.0
FOREIGN SOURCES, TOTAL.....	303	335	352	10.6	5.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	2,514	2,458	2,420	-2.2	-1.5
U.S. SOURCES, TOTAL.....	2,508	2,454	2,420	-2.2	-1.4
U.S. GOVERNMENT.....	723	617	643	-14.7	4.2
INSTITUTIONAL SUPPORT.....	1,600	1,719	1,597	7.4	-7.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	185	118	160	-36.2	52.5
FOREIGN SOURCES, TOTAL.....	6	4	0	*	*
U.S. CITIZENS .....	1,987	1,930	1,953	-2.9	1.2
U.S. SOURCES, TOTAL.....	1,987	1,930	1,953	-2.9	1.2
U.S. GOVERNMENT.....	566	490	487	-13.4	-6
INSTITUTIONAL SUPPORT.....	1,285	1,355	1,322	5.4	-2.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	136	85	144	-37.5	69.4
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	527	528	467	.2	-11.6
U.S. SOURCES, TOTAL.....	521	524	467	.6	-10.9
U.S. GOVERNMENT.....	157	127	156	-19.1	22.8
INSTITUTIONAL SUPPORT.....	315	364	275	15.6	-24.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	49	33	36	-36	9
FOREIGN SOURCES, TOTAL.....	6	4	0	*	*

TABLE C-170. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	5,107	5,166	5,118	1.2	-0.9
U.S. SOURCES, TOTAL.....	5,107	5,166	5,118	1.2	-0.9
U.S. GOVERNMENT.....	66	25	75	-62.1	*
INSTITUTIONAL SUPPORT.....	4,994	5,120	5,014	2.5	-2.1
SELF-SUPPORT.....	0	0	0	---	*
ALL OTHER U.S. SOURCES.....	47	21	29	*	---
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS .....	4,334	4,376	4,391	1.0	.3
U.S. SOURCES, TOTAL.....	4,334	4,376	4,391	1.0	.3
U.S. GOVERNMENT.....	56	23	65	-58.9	*
INSTITUTIONAL SUPPORT.....	4,239	4,337	4,303	2.3	-0.8
SELF-SUPPORT.....	0	0	0	---	*
ALL OTHER U.S. SOURCES.....	39	16	23	*	---
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	773	790	727	2.2	-8.0
U.S. SOURCES, TOTAL.....	773	790	727	2.2	-8.0
U.S. GOVERNMENT.....	10	2	10	*	*
INSTITUTIONAL SUPPORT.....	755	783	711	3.7	-9.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	8	5	6	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	10,420	10,506	10,867	.8	3.4
U.S. SOURCES, TOTAL.....	10,337	10,416	10,804	.8	3.7
U.S. GOVERNMENT.....	289	347	258	20.1	-25.6
INSTITUTIONAL SUPPORT.....	452	449	491	-.7	9.4
SELF-SUPPORT.....	9,202	8,981	9,580	-2.4	6.7
ALL OTHER U.S. SOURCES.....	394	639	475	62.2	-25.7
FOREIGN SOURCES, TOTAL.....	83	90	63	8.4	-30.0
U.S. CITIZENS .....	9,041	9,023	9,321	-.2	3.3
U.S. SOURCES, TOTAL.....	9,041	9,023	9,321	-.2	3.3
U.S. GOVERNMENT.....	248	330	242	33.1	-26.7
INSTITUTIONAL SUPPORT.....	378	398	411	5.3	3.3
SELF-SUPPORT.....	8,093	7,740	8,268	-4.4	6.8
ALL OTHER U.S. SOURCES.....	322	555	400	72.4	-27.9
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	1,379	1,483	1,546	7.5	4.2
U.S. SOURCES, TOTAL.....	1,296	1,393	1,483	7.5	6.5
U.S. GOVERNMENT.....	41	17	16	*	*
INSTITUTIONAL SUPPORT.....	74	51	80	-31.1	56.9
SELF-SUPPORT.....	1,109	1,241	1,312	11.9	5.7
ALL OTHER U.S. SOURCES.....	72	84	75	16.7	-10.7
FOREIGN SOURCES, TOTAL.....	83	90	63	8.4	-30.0

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-18A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	131,935	131,902	129,939	□	-1.5
FIRST-YEAR STUDENTS.....	43,144	42,199	40,069	-2.2	-5.0
BEYOND-FIRST-YEAR STUDENTS.....	88,791	89,703	89,870	1.0	.2
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	105,768	104,724	103,400	-1.0	-1.3
FIRST-YEAR STUDENTS.....	34,036	33,599	32,228	-1.3	-4.1
BEYOND-FIRST-YEAR STUDENTS.....	71,732	71,125	71,172	-.8	.1
FOREIGN STUDENTS, TOTAL.....	26,167	27,178	26,539	3.9	-2.4
FIRST-YEAR STUDENTS.....	9,108	8,600	7,841	-5.6	-8.8
BEYOND-FIRST-YEAR STUDENTS.....	17,059	18,578	18,698	8.9	.6
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	38,972	36,453	32,988	-6.5	-9.5
FIRST-YEAR STUDENTS.....	11,638	11,213	9,280	-3.7	-17.2
BEYOND-FIRST-YEAR STUDENTS.....	27,334	25,240	23,708	-7.7	-6.1
U. S. CITIZENS, TOTAL.....	34,011	31,376	28,261	-7.7	-9.9
FIRST-YEAR STUDENTS.....	9,800	9,467	7,731	-3.4	-18.3
BEYOND-FIRST-YEAR STUDENTS.....	24,211	21,909	20,530	-9.5	-6.3
FOREIGN STUDENTS, TOTAL.....	4,961	5,077	4,727	2.3	-6.9
FIRST-YEAR STUDENTS.....	1,838	1,746	1,549	-5.0	-11.3
BEYOND-FIRST-YEAR STUDENTS.....	3,123	3,331	3,178	6.7	-4.6
RESEARCH ASSISTANTSHIPS, TOTAL.....	28,506	28,500	27,249	□	-4.4
FIRST-YEAR STUDENTS.....	5,819	5,731	5,621	-1.5	-1.9
BEYOND-FIRST-YEAR STUDENTS.....	22,687	22,769	21,628	.4	-5.0
U. S. CITIZENS, TOTAL.....	20,094	19,977	19,541	-.6	-2.2
FIRST-YEAR STUDENTS.....	4,066	4,144	4,376	1.9	5.6
BEYOND-FIRST-YEAR STUDENTS.....	16,028	15,833	15,165	-1.2	-4.2
FOREIGN STUDENTS, TOTAL.....	8,412	8,523	7,708	1.3	-9.6
FIRST-YEAR STUDENTS.....	1,753	1,587	1,245	-9.5	-21.6
BEYOND-FIRST-YEAR STUDENTS.....	6,659	6,936	6,463	4.2	-6.8
TEACHING ASSISTANTSHIPS, TOTAL.....	31,221	32,616	32,335	4.5	-.9
FIRST-YEAR STUDENTS.....	10,658	9,989	9,520	-6.3	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	20,563	22,627	22,815	10.0	.8
U. S. CITIZENS, TOTAL.....	25,079	26,124	26,143	4.2	.1
FIRST-YEAR STUDENTS.....	8,629	8,296	8,028	-3.9	-3.2
BEYOND-FIRST-YEAR STUDENTS.....	16,450	17,828	18,115	8.4	1.6
FOREIGN STUDENTS, TOTAL.....	6,142	6,492	6,192	5.7	-4.6

## TYPE OF MAJOR SUPPORT

FOREIGN STUDENTS, TOTAL.....	26,167	27,178	26,539	3.9	-2.4
FIRST-YEAR STUDENTS.....	9,108	8,600	7,841	-5.6	-8.8
BEYOND-FIRST-YEAR STUDENTS.....	17,059	18,578	18,698	8.9	.6
FELLOWSHIPS AND TRAINEESHIPS, TOTAL....	38,972	36,453	32,988	-6.5	-9.5
FIRST-YEAR STUDENTS.....	11,638	11,213	9,280	-3.7	-17.2
BEYOND-FIRST-YEAR STUDENTS.....	27,334	25,240	23,708	-7.7	-6.1
U. S. CITIZENS, TOTAL.....	34,011	31,374	28,261	-7.7	-9.9
FIRST-YEAR STUDENTS.....	9,800	9,467	7,731	-3.4	-18.3
BEYOND-FIRST-YEAR STUDENTS.....	24,211	21,909	20,530	-5.5	-6.3
FOREIGN STUDENTS, TOTAL.....	4,961	5,077	4,727	2.3	-6.9
FIRST-YEAR STUDENTS.....	1,838	1,746	1,549	-5.0	-11.3
BEYOND-FIRST-YEAR STUDENTS.....	3,123	3,331	3,178	6.7	-4.6
RESEARCH ASSISTANTSHIPS, TOTAL.....	28,506	28,500	27,249	□	-4.4
FIRST-YEAR STUDENTS.....	5,819	5,731	5,621	-1.5	-1.9
BEYOND-FIRST-YEAR STUDENTS.....	22,687	22,769	21,628	.4	-5.0
U. S. CITIZENS, TOTAL.....	20,094	19,977	19,541	-.6	-2.2
FIRST-YEAR STUDENTS.....	4,066	4,144	4,376	1.9	5.6
BEYOND-FIRST-YEAR STUDENTS.....	16,028	15,833	15,165	-1.2	-4.2
FOREIGN STUDENTS, TOTAL.....	8,412	8,523	7,708	1.3	-9.6
FIRST-YEAR STUDENTS.....	1,753	1,587	1,245	-9.5	-21.6
BEYOND-FIRST-YEAR STUDENTS.....	6,659	6,936	6,463	4.2	-6.8
TEACHING ASSISTANTSHIPS, TOTAL.....	31,221	32,616	32,335	4.5	-.9
FIRST-YEAR STUDENTS.....	10,658	9,989	9,520	-6.3	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	20,563	22,627	22,815	10.0	.8
U. S. CITIZENS, TOTAL.....	25,070	26,124	26,143	4.2	.1
FIRST-YEAR STUDENTS.....	8,629	8,296	8,028	-3.9	-3.2
BEYOND-FIRST-YEAR STUDENTS.....	16,450	17,828	18,115	8.4	1.6
FOREIGN STUDENTS, TOTAL.....	6,142	6,492	6,192	5.7	-4.6
FIRST-YEAR STUDENTS.....	2,029	1,693	1,492	-16.6	-11.9
BEYOND-FIRST-YEAR STUDENTS.....	4,113	4,799	4,700	16.7	-2.1
OTHER TYPES OF MAJOR SUPPORT, TOTAL....	33,236	34,333	37,367	3.3	8.8
FIRST-YEAR STUDENTS.....	15,029	15,266	15,648	1.6	2.5
BEYOND-FIRST-YEAR STUDENTS.....	18,207	19,067	21,719	4.7	13.9
U. S. CITIZENS, TOTAL.....	26,584	27,247	29,455	2.5	8.1
FIRST-YEAR STUDENTS.....	11,541	11,692	12,093	1.3	3.4
BEYOND-FIRST-YEAR STUDENTS.....	15,043	15,555	17,362	2.4	11.6
FOREIGN STUDENTS, TOTAL.....	6,652	7,086	7,912	6.5	11.7
FIRST-YEAR STUDENTS.....	3,488	3,574	3,555	2.5	-.5
BEYOND-FIRST-YEAR STUDENTS.....	3,164	3,512	4,357	11.0	24.1

□ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-12B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	1969	NUMBER	PERCENT CHANGE	
			1969-70	1970-71
ALL SCIENCES, TOTAL.....	28,793	29,534	2.6	-2.0
FIRST-YEAR STUDENTS.....	11,189	11,710	4.7	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	17,604	17,824	1.2	-2
CITIZENSHIP				
U. S. CITIZENS, TOTAL.....	18,617	18,841	1.2	-1.4
FIRST-YEAR STUDENTS.....	7,091	7,803	10.0	-2.3
BEYOND-FIRST-YEAR STUDENTS.....	11,526	11,038	-4.2	-7
FOREIGN STUDENTS, TOTAL.....	10,176	10,693	5.1	-3.1
FIRST-YEAR STUDENTS.....	4,098	3,907	-4.7	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	6,078	6,786	11.6	.7
TYPE OF MAJOR SUPPORT				
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	7,571	7,083	-6.4	-10.6
FIRST-YEAR STUDENTS.....	2,864	2,951	3.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	4,707	4,132	-12.2	-10.1
U. S. CITIZENS, TOTAL.....	6,171	5,736	-7.0	-10.7
FIRST-YEAR STUDENTS.....	2,240	2,417	7.9	-12.9
BEYOND-FIRST-YEAR STUDENTS.....	3,931	3,319	-15.6	-9.1
FOREIGN STUDENTS, TOTAL.....	1,400	1,347	-3.8	-9.9
FIRST-YEAR STUDENTS.....	624	534	-14.4	-3.4
BEYOND-FIRST-YEAR STUDENTS.....	776	813	4.8	-14.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	8,474	8,824	4.1	-4.2
FIRST-YEAR STUDENTS.....	2,122	2,246	5.8	.4
BEYOND-FIRST-YEAR STUDENTS.....	6,352	6,578	3.6	-5.8
U. S. CITIZENS, TOTAL.....	4,504	4,688	4.1	1.6
FIRST-YEAR STUDENTS.....	1,157	1,365	18.0	15.5
BEYOND-FIRST-YEAR STUDENTS.....	3,347	3,323	-.7	-4.2
FOREIGN STUDENTS, TOTAL.....	3,970	4,136	4.2	-10.8
FIRST-YEAR STUDENTS.....	965	881	-8.7	-22.9
BEYOND-FIRST-YEAR STUDENTS.....	3,005	3,255	8.3	-7.5
TEACHING ASSISTANTSHIPS, TOTAL.....	3,951	4,154	5.1	-8
FIRST-YEAR STUDENTS.....	1,393	1,327	-4.7	-7
BEYOND-FIRST-YEAR STUDENTS.....	2,558	2,827	10.5	-8
U. S. CITIZENS, TOTAL.....	2,317	2,489	7.4	4.3
FIRST-YEAR STUDENTS.....	839	924	10.1	7.4
BEYOND-FIRST-YEAR STUDENTS.....	1,478	1,565	5.9	2.4
FOREIGN STUDENTS, TOTAL.....	1,634	1,665	1.9	-8.3
FIRST-YEAR STUDENTS.....	554	403	-27.3	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	1,080	1,262	16.9	-4.9
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	8,797	9,473	7.7	6.0
FIRST-YEAR STUDENTS.....	4,810	5,186	7.8	-4.3

TYPE OF MAJOR SUPPORT

U. S. CITIZENS, TOTAL.....	18,617	18,841	18,581	1.2	-1.4
FIRST-YEAR STUDENTS.....	7,091	7,803	7,625	10.0	-2.3
BEYOND-FIRST-YEAR STUDENTS.....	11,526	11,038	10,956	-4.2	-7
FOREIGN STUDENTS, TOTAL.....	10,176	10,693	10,364	5.1	-3.1
FIRST-YEAR STUDENTS.....	4,098	3,907	3,529	-4.7	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	6,078	6,786	6,835	11.6	.7
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...					
FIRST-YEAR STUDENTS.....	2,864	2,951	2,620	3.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	4,707	4,132	3,714	-12.2	-10.1
U. S. CITIZENS, TOTAL.....	6,171	5,736	5,120	-7.0	-10.7
FIRST-YEAR STUDENTS.....	2,240	2,417	2,104	7.9	-12.9
BEYOND-FIRST-YEAR STUDENTS.....	3,931	3,319	3,016	-15.6	-9.1
FOREIGN STUDENTS, TOTAL.....	1,400	1,347	1,214	-3.8	-9.9
FIRST-YEAR STUDENTS.....	624	534	516	-14.4	-3.4
BEYOND-FIRST-YEAR STUDENTS.....	776	813	698	4.8	-14.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	8,474	8,824	8,451	4.1	-4.2
FIRST-YEAR STUDENTS.....	2,122	2,246	2,255	5.8	.4
BEYOND-FIRST-YEAR STUDENTS.....	6,352	6,578	6,196	3.6	-5.8
U. S. CITIZENS, TOTAL.....	4,504	4,688	4,761	4.1	1.6
FIRST-YEAR STUDENTS.....	1,157	1,365	1,576	18.0	15.5
BEYOND-FIRST-YEAR STUDENTS.....	3,347	3,323	3,185	-7	-4.2
FOREIGN STUDENTS, TOTAL.....	3,970	4,136	3,690	4.2	-10.8
FIRST-YEAR STUDENTS.....	965	881	679	-8.7	-22.9
BEYOND-FIRST-YEAR STUDENTS.....	3,005	3,255	3,011	8.3	-7.5
TEACHING ASSISTANTSHIPS, TOTAL.....	3,951	4,154	4,121	5.1	-8
FIRST-YEAR STUDENTS.....	1,393	1,327	1,318	-4.7	-7
BEYOND-FIRST-YEAR STUDENTS.....	2,558	2,827	2,803	10.5	-8
U. S. CITIZENS, TOTAL.....	2,317	2,489	2,595	7.4	4.3
FIRST-YEAR STUDENTS.....	839	924	992	10.1	7.4
BEYOND-FIRST-YEAR STUDENTS.....	1,478	1,565	1,603	5.9	2.4
FOREIGN STUDENTS, TOTAL.....	1,634	1,665	1,526	1.9	-8.3
FIRST-YEAR STUDENTS.....	554	403	326	-27.3	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	1,080	1,262	1,200	16.9	-4.9
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	8,797	9,473	10,039	7.7	6.0
FIRST-YEAR STUDENTS.....	4,810	5,186	4,961	7.8	-4.3
BEYOND-FIRST-YEAR STUDENTS.....	3,987	4,287	5,078	7.5	18.5
U. S. CITIZENS, TOTAL.....	5,625	5,928	6,105	5.4	3.0
FIRST-YEAR STUDENTS.....	2,855	3,097	2,953	8.5	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	2,770	2,831	3,152	2.2	11.3
FOREIGN STUDENTS, TOTAL.....	3,172	3,545	3,934	11.8	11.0
FIRST-YEAR STUDENTS.....	1,955	2,089	2,008	6.9	-3.9
BEYOND-FIRST-YEAR STUDENTS.....	1,217	1,456	1,926	19.6	32.3



TABLE C-18a. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	29,253	28,264	27,056	-3.4	-4.3
FIRST-YEAR STUDENTS.....	7,795	7,066	6,609	-9.4	-6.5
BEYOND-FIRST-YEAR STUDENTS.....	21,458	21,198	20,447	-1.2	-3.5
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	23,719	22,612	21,560	-4.7	-4.7
FIRST-YEAR STUDENTS.....	6,175	5,617	5,316	-9.0	-5.4
BEYOND-FIRST-YEAR STUDENTS.....	17,544	16,995	16,244	-3.1	-4.4
FOREIGN STUDENTS, TOTAL.....	5,534	5,652	5,496	2.1	-2.8
FIRST-YEAR STUDENTS.....	1,620	1,449	1,293	-10.6	-10.8
BEYOND-FIRST-YEAR STUDENTS.....	3,914	4,203	4,203	7.4	0
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	6,878	5,958	5,027	-13.4	-15.6
FIRST-YEAR STUDENTS.....	1,665	1,535	1,129	-7.8	-26.4
BEYOND-FIRST-YEAR STUDENTS.....	5,213	4,423	3,898	-15.2	-11.9
U. S. CITIZENS, TOTAL.....	6,109	5,213	4,344	-14.7	-16.7
FIRST-YEAR STUDENTS.....	1,413	1,318	933	-6.7	-29.2
BEYOND-FIRST-YEAR STUDENTS.....	4,696	3,895	3,411	-17.1	-12.4
FOREIGN STUDENTS, TOTAL.....	769	745	683	-3.1	-8.3
FIRST-YEAR STUDENTS.....	252	217	196	-13.9	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	517	528	487	2.1	-7.8
RESEARCH ASSISTANTSHIPS, TOTAL.....	9,218	8,800	8,248	-4.5	-6.3
FIRST-YEAR STUDENTS.....	853	763	728	-10.6	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	8,365	8,037	7,520	-3.9	-6.4
U. S. CITIZENS, TOTAL.....	7,175	6,799	6,349	-5.2	-6.6
FIRST-YEAR STUDENTS.....	612	555	584	-9.3	5.2
BEYOND-FIRST-YEAR STUDENTS.....	6,563	6,244	5,765	-4.9	-7.7
FOREIGN STUDENTS, TOTAL.....	2,043	2,001	1,899	-2.1	-5.1
FIRST-YEAR STUDENTS.....	241	208	144	-13.7	-30.8
BEYOND-FIRST-YEAR STUDENTS.....	1,802	1,793	1,755	-.5	-2.1
TEACHING ASSISTANTSHIPS, TOTAL.....	9,797	10,199	10,081	4.1	-1.2
FIRST-YEAR STUDENTS.....	3,957	3,592	3,450	-9.2	-4.0
BEYOND-FIRST-YEAR STUDENTS.....	5,840	6,607	6,631	13.1	.4
U. S. CITIZENS, TOTAL.....	7,754	7,929	7,859	2.3	-.9
FIRST-YEAR STUDENTS.....	3,192	2,877	2,781	-9.9	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	4,562	5,052	5,078	10.7	.5
FOREIGN STUDENTS, TOTAL.....	2,043	2,270	2,222	11.1	-2.1
FIRST-YEAR STUDENTS.....	765	715	669	-6.5	-6.4

## TYPE OF MAJOR SUPPORT

BEYOND-FIRST-YEAR STUDENTS.....	17,544	16,995	16,244	-3.1	4.4
FOREIGN STUDENTS, TOTAL.....	5,534	5,652	5,496	2.1	-2.8
FIRST-YEAR STUDENTS.....	1,620	1,449	1,293	-10.6	-10.8
BEYOND-FIRST-YEAR STUDENTS.....	3,914	4,203	4,203	7.4	□
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	6,878	5,958	5,027	-13.4	-15.6
FIRST-YEAR STUDENTS.....	1,665	1,535	1,129	-7.8	-26.4
BEYOND-FIRST-YEAR STUDENTS.....	5,213	4,423	3,898	-15.2	-11.9
U. S. CITIZENS, TOTAL.....	6,109	5,213	4,344	-14.7	-16.7
FIRST-YEAR STUDENTS.....	1,413	1,318	933	-6.7	-29.2
BEYOND-FIRST-YEAR STUDENTS.....	4,696	3,895	3,411	-17.1	-12.4
FOREIGN STUDENTS, TOTAL.....	769	745	683	-3.1	-8.3
FIRST-YEAR STUDENTS.....	252	217	196	-13.9	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	517	528	487	2.1	-7.8
RESEARCH ASSISTANTSHIPS, TOTAL.....	9,218	8,800	8,248	-4.5	-6.3
FIRST-YEAR STUDENTS.....	853	763	728	-10.6	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	8,365	8,037	7,520	-3.9	-6.4
U. S. CITIZENS, TOTAL.....	7,175	6,799	6,349	-5.2	-6.6
FIRST-YEAR STUDENTS.....	612	555	584	-9.3	5.2
BEYOND-FIRST-YEAR STUDENTS.....	6,563	6,244	5,765	-4.9	-7.7
FOREIGN STUDENTS, TOTAL.....	2,043	2,001	1,899	-2.1	-5.1
FIRST-YEAR STUDENTS.....	241	208	144	-13.7	-30.8
BEYOND-FIRST-YEAR STUDENTS.....	1,802	1,793	1,755	-5	-2.1
TEACHING ASSISTANTSHIPS, TOTAL.....	9,797	10,199	10,081	4.1	-1.2
FIRST-YEAR STUDENTS.....	3,957	3,592	3,450	-9.2	-4.0
BEYOND-FIRST-YEAR STUDENTS.....	5,840	6,607	6,631	13.1	.4
U. S. CITIZENS, TOTAL.....	7,754	7,929	7,859	2.3	-.9
FIRST-YEAR STUDENTS.....	3,192	2,877	2,781	-9.9	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	4,562	5,052	5,078	10.7	.5
FOREIGN STUDENTS, TOTAL.....	2,043	2,270	2,222	11.1	-2.1
FIRST-YEAR STUDENTS.....	765	715	669	-6.5	-6.4
BEYOND-FIRST-YEAR STUDENTS.....	1,278	1,555	1,553	21.7	-.1
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	3,360	3,307	3,700	-1.6	11.9
FIRST-YEAR STUDENTS.....	1,320	1,176	1,302	-10.9	10.7
BEYOND-FIRST-YEAR STUDENTS.....	2,040	2,131	2,398	4.5	12.5
U. S. CITIZENS, TOTAL.....	2,681	2,671	3,008	-.4	12.6
FIRST-YEAR STUDENTS.....	958	867	1,018	-9.5	17.4
BEYOND-FIRST-YEAR STUDENTS.....	1,723	1,804	1,990	4.7	10.3
FOREIGN STUDENTS, TOTAL.....	679	636	692	-6.3	8.8
FIRST-YEAR STUDENTS.....	362	309	284	-14.6	-8.1
BEYOND-FIRST-YEAR STUDENTS.....	317	327	408	3.2	24.8

□ LESS THAN 0.05 PERCENT CHANGE.

TABLE C- 18D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	11,349	11,500	11,008	1.3	-4.3
FIRST-YEAR STUDENTS.....	4,060	3,944	3,572	-2.9	-9.4
BEYOND-FIRST-YEAR STUDENTS.....	7,289	7,556	7,436	3.7	-1.6
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	9,310	9,340	8,840	.3	-5.4
FIRST-YEAR STUDENTS.....	3,366	3,332	2,959	-1.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	5,944	6,008	5,881	1.1	-2.1
FOREIGN STUDENTS, TOTAL.....	2,039	2,160	2,168	5.9	.4
FIRST-YEAR STUDENTS.....	694	612	613	-11.8	.2
BEYOND-FIRST-YEAR STUDENTS.....	1,345	1,548	1,555	15.1	.5
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	2,639	2,364	2,039	-10.4	-13.7
FIRST-YEAR STUDENTS.....	908	897	580	-1.2	-35.3
BEYOND-FIRST-YEAR STUDENTS.....	1,731	1,467	1,459	-15.3	-.5
U. S. CITIZENS, TOTAL.....	2,306	2,068	1,764	-10.3	-14.7
FIRST-YEAR STUDENTS.....	763	795	515	4.2	-35.2
BEYOND-FIRST-YEAR STUDENTS.....	1,543	1,273	1,249	-17.5	-1.9
FOREIGN STUDENTS, TOTAL.....	333	296	275	-11.1	-7.1
FIRST-YEAR STUDENTS.....	145	102	65	-29.7	-36.3
BEYOND-FIRST-YEAR STUDENTS.....	188	194	210	3.2	8.2
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,135	1,208	1,005	6.4	-16.8
FIRST-YEAR STUDENTS.....	203	234	195	15.3	-16.7
BEYOND-FIRST-YEAR STUDENTS.....	932	974	810	4.5	-16.8
U. S. CITIZENS, TOTAL.....	796	804	669	1.0	-16.8
FIRST-YEAR STUDENTS.....	131	156	138	19.1	-11.5
BEYOND-FIRST-YEAR STUDENTS.....	665	648	531	-2.6	-18.1
FOREIGN STUDENTS, TOTAL.....	339	404	336	19.2	-16.8
FIRST-YEAR STUDENTS.....	72	78	57	8.3	-26.9
BEYOND-FIRST-YEAR STUDENTS.....	267	326	279	22.1	-14.4
TEACHING ASSISTANTSHIPS, TOTAL.....	4,687	5,131	4,951	9.5	-3.5
FIRST-YEAR STUDENTS.....	1,506	1,546	1,427	2.7	-7.7
BEYOND-FIRST-YEAR STUDENTS.....	3,181	3,585	3,524	12.7	-1.7
U. S. CITIZENS, TOTAL.....	3,781	4,161	4,059	10.1	-2.5
FIRST-YEAR STUDENTS.....					

U. S. CITIZENS, TOTAL.....	9,310	9,340	8,840	.3	-5.4
FIRST-YEAR STUDENTS.....	3,366	3,332	2,959	-1.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	5,944	6,008	5,881	1.1	-2.1
FOREIGN STUDENTS, TOTAL.....	2,039	2,160	2,168	5.9	.4
FIRST-YEAR STUDENTS.....	694	612	613	-11.8	.2
BEYOND-FIRST-YEAR STUDENTS.....	1,345	1,548	1,555	15.1	.5
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	2,639	2,364	2,039	-10.4	-13.7
FIRST-YEAR STUDENTS.....	908	897	580	-1.2	-35.3
BEYOND-FIRST-YEAR STUDENTS.....	1,731	1,467	1,459	-15.3	-5.5
U. S. CITIZENS, TOTAL.....	2,306	2,068	1,764	-10.3	-14.7
FIRST-YEAR STUDENTS.....	763	795	515	4.2	-35.2
BEYOND-FIRST-YEAR STUDENTS.....	1,543	1,273	1,249	-17.5	-1.9
FOREIGN STUDENTS, TOTAL.....	333	296	275	-11.1	-7.1
FIRST-YEAR STUDENTS.....	145	102	65	-29.7	-36.3
BEYOND-FIRST-YEAR STUDENTS.....	188	194	210	3.2	8.2
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,135	1,208	1,005	6.4	-16.8
FIRST-YEAR STUDENTS.....	203	234	195	15.3	-16.7
BEYOND-FIRST-YEAR STUDENTS.....	932	974	810	4.5	-16.8
U. S. CITIZENS, TOTAL.....	796	804	669	1.0	-16.8
FIRST-YEAR STUDENTS.....	131	156	138	19.1	-11.5
BEYOND-FIRST-YEAR STUDENTS.....	665	648	531	-2.6	-19.1
FOREIGN STUDENTS, TOTAL.....	339	404	336	19.2	-16.8
FIRST-YEAR STUDENTS.....	72	78	57	8.3	-26.9
BEYOND-FIRST-YEAR STUDENTS.....	267	326	279	22.1	-14.4
TEACHING ASSISTANTSHIPS, TOTAL.....	4,687	5,131	4,951	9.5	-3.5
FIRST-YEAR STUDENTS.....	1,506	1,546	1,427	2.7	-7.7
BEYOND-FIRST-YEAR STUDENTS.....	3,181	3,585	3,524	12.7	-1.7
U. S. CITIZENS, TOTAL.....	3,781	4,161	4,059	10.1	-2.5
FIRST-YEAR STUDENTS.....	1,244	1,308	1,246	5.1	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	2,537	2,853	2,813	12.5	-1.4
FOREIGN STUDENTS, TOTAL.....	906	970	892	7.1	-8.0
FIRST-YEAR STUDENTS.....	262	238	181	-5.2	-23.9
BEYOND-FIRST-YEAR STUDENTS.....	644	732	711	13.7	-2.9
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	2,888	2,797	3,013	-3.2	7.7
FIRST-YEAR STUDENTS.....	1,443	1,267	1,370	-12.2	8.1
BEYOND-FIRST-YEAR STUDENTS.....	1,445	1,530	1,643	5.9	7.4
U. S. CITIZENS, TOTAL.....	2,427	2,307	2,348	-4.9	1.8
FIRST-YEAR STUDENTS.....	1,228	1,073	1,060	-12.6	-1.2
BEYOND-FIRST-YEAR STUDENTS.....	1,199	1,234	1,288	2.9	4.4
FOREIGN STUDENTS, TOTAL.....	461	490	665	6.3	35.7
FIRST-YEAR STUDENTS.....	215	194	310	-9.8	59.8
BEYOND-FIRST-YEAR STUDENTS.....	246	296	355	20.3	19.9

TABLE C-18B. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	24,645	24,739	24,752	0.4	0.1
FIRST-YEAR STUDENTS.....	7,487	7,297	7,090	-2.5	-2.8
BEYOND-FIRST-YEAR STUDENTS.....	17,158	17,442	17,662	1.7	1.3
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	20,888	20,980	21,056	.4	.4
FIRST-YEAR STUDENTS.....	6,346	6,278	6,103	-1.1	-2.8
BEYOND-FIRST-YEAR STUDENTS.....	14,542	14,702	14,953	1.1	1.7
FOREIGN STUDENTS, TOTAL.....	3,757	3,759	3,696	.1	-1.7
FIRST-YEAR STUDENTS.....	1,141	1,019	987	-10.7	-3.1
BEYOND-FIRST-YEAR STUDENTS.....	2,616	2,740	2,709	4.7	-1.1
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,613	8,092	7,407	-6.0	-8.5
FIRST-YEAR STUDENTS.....	2,009	1,903	1,564	-5.3	-17.8
BEYOND-FIRST-YEAR STUDENTS.....	6,604	6,189	5,843	-6.3	-5.6
U. S. CITIZENS, TOTAL.....	7,769	7,177	6,552	-7.6	-8.7
FIRST-YEAR STUDENTS.....	1,762	1,648	1,333	-6.5	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	6,007	5,529	5,219	-8.0	-5.6
FOREIGN STUDENTS, TOTAL.....	844	915	855	8.4	-6.6
FIRST-YEAR STUDENTS.....	247	255	231	3.2	-9.4
BEYOND-FIRST-YEAR STUDENTS.....	597	660	624	10.6	-5.5
RESEARCH ASSISTANTSHIPS, TOTAL.....	5,626	5,649	5,536	.4	-2.0
FIRST-YEAR STUDENTS.....	1,430	1,289	1,280	-9.9	-.7
BEYOND-FIRST-YEAR STUDENTS.....	4,196	4,360	4,256	3.9	-2.4
U. S. CITIZENS, TOTAL.....	4,210	4,309	4,338	2.4	.7
FIRST-YEAR STUDENTS.....	1,104	1,037	1,052	-6.1	1.4
BEYOND-FIRST-YEAR STUDENTS.....	3,106	3,272	3,286	5.3	.4
FOREIGN STUDENTS, TOTAL.....	1,416	1,340	1,198	-5.4	-10.6
FIRST-YEAR STUDENTS.....	326	252	228	-22.7	-9.5
BEYOND-FIRST-YEAR STUDENTS.....	1,090	1,088	970	-.2	-10.8
TEACHING ASSISTANTSHIPS, TOTAL.....	5,575	5,754	5,765	3.2	.2
FIRST-YEAR STUDENTS.....	1,923	1,809	1,643	-5.9	-9.2
BEYOND-FIRST-YEAR STUDENTS.....	3,652	3,945	4,122	8.0	4.5
U. S. CITIZENS, TOTAL.....	4,910	5,068	5,061	3.2	-.1
FIRST-YEAR STUDENTS.....	1,703	1,657	1,480	-2.7	-10.7
BEYOND-FIRST-YEAR STUDENTS.....	3,207	3,411	3,581	6.4	5.0
FOREIGN STUDENTS, TOTAL.....	665	686	704	3.2	2.6

TYPE OF MAJOR SUPPORT

FIRST-YEAR STUDENTS.....	1,141	1,019	987	-10.7	-3.1
BEYOND-FIRST-YEAR STUDENTS.....	2,616	2,740	2,709	4.7	-1.1
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...					
FIRST-YEAR STUDENTS.....	8,613	8,092	7,407	-6.0	-8.5
BEYOND-FIRST-YEAR STUDENTS.....	2,009	1,903	1,564	-5.3	-17.8
U. S. CITIZENS, TOTAL.....	6,604	6,189	5,843	-6.3	-5.6
FIRST-YEAR STUDENTS.....	7,769	7,177	6,552	-7.6	-8.7
BEYOND-FIRST-YEAR STUDENTS.....	1,762	1,648	1,333	-6.5	-19.1
FOREIGN STUDENTS, TOTAL.....	6,007	5,529	5,219	-8.0	-5.6
FIRST-YEAR STUDENTS.....	844	915	855	8.4	-6.6
BEYOND-FIRST-YEAR STUDENTS.....	247	255	231	3.2	-9.4
RESEARCH ASSISTANTSHIPS, TOTAL.....	5,626	5,649	5,536	.4	-2.0
FIRST-YEAR STUDENTS.....	1,430	1,289	1,280	-9.9	-7
BEYOND-FIRST-YEAR STUDENTS.....	4,196	4,360	4,256	3.9	-2.4
U. S. CITIZENS, TOTAL.....	4,210	4,309	4,338	2.4	.7
FIRST-YEAR STUDENTS.....	1,104	1,037	1,052	-6.1	1.4
BEYOND-FIRST-YEAR STUDENTS.....	3,106	3,272	3,286	5.3	.4
FOREIGN STUDENTS, TOTAL.....	1,416	1,340	1,198	-5.4	-10.6
FIRST-YEAR STUDENTS.....	326	252	228	-22.7	-9.5
BEYOND-FIRST-YEAR STUDENTS.....	1,090	1,088	970	-2	-10.8
TEACHING ASSISTANTSHIPS, TOTAL.....	5,575	5,754	5,765	3.2	.2
FIRST-YEAR STUDENTS.....	1,923	1,809	1,643	-5.9	-9.2
BEYOND-FIRST-YEAR STUDENTS.....	3,652	3,945	4,122	8.0	4.5
U. S. CITIZENS, TOTAL.....	4,910	5,068	5,061	3.2	-1
FIRST-YEAR STUDENTS.....	1,703	1,657	1,480	-2.7	-10.7
BEYOND-FIRST-YEAR STUDENTS.....	3,207	3,411	3,581	6.4	5.0
FOREIGN STUDENTS, TOTAL.....	665	686	704	3.2	2.6
FIRST-YEAR STUDENTS.....	220	152	163	-30.9	7.2
BEYOND-FIRST-YEAR STUDENTS.....	445	534	541	20.0	1.3
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	4,831	5,244	6,044	8.5	15.3
FIRST-YEAR STUDENTS.....	2,125	2,296	2,603	8.0	13.4
BEYOND-FIRST-YEAR STUDENTS.....	2,706	2,948	3,441	8.9	16.7
U. S. CITIZENS, TOTAL.....	3,999	4,426	5,105	10.7	15.3
FIRST-YEAR STUDENTS.....	1,777	1,936	2,238	8.9	15.6
BEYOND-FIRST-YEAR STUDENTS.....	2,222	2,490	2,867	12.1	15.1
FOREIGN STUDENTS, TOTAL.....	832	818	939	-1.7	14.8
FIRST-YEAR STUDENTS.....	348	360	365	3.4	1.4
BEYOND-FIRST-YEAR STUDENTS.....	484	458	574	-5.4	25.3

TABLE C-128. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	11,142	11,272	11,817	1.2	4.8
FIRST-YEAR STUDENTS.....	3,308	3,194	3,200	-3.4	.2
BEYOND-FIRST-YEAR STUDENTS.....	7,834	8,078	8,617	3.1	6.7
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	10,660	10,818	11,339	1.5	4.8
FIRST-YEAR STUDENTS.....	3,163	3,067	3,065	-3.0	-.1
BEYOND-FIRST-YEAR STUDENTS.....	7,497	7,751	8,274	3.4	6.7
FOREIGN STUDENTS, TOTAL.....	482	454	478	-5.8	5.3
FIRST-YEAR STUDENTS.....	145	127	135	-12.4	6.3
BEYOND-FIRST-YEAR STUDENTS.....	337	327	343	-3.0	4.9
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	4,559	4,493	4,225	-1.4	-6.0
FIRST-YEAR STUDENTS.....	1,328	1,260	1,094	-5.1	-13.2
BEYOND-FIRST-YEAR STUDENTS.....	3,231	3,233	3,131	.1	-3.2
U. S. CITIZENS, TOTAL.....	4,444	4,378	4,122	-1.5	-5.8
FIRST-YEAR STUDENTS.....	1,296	1,229	1,065	-5.2	-13.3
BEYOND-FIRST-YEAR STUDENTS.....	3,148	3,149	3,057	.0	-2.9
FOREIGN STUDENTS, TOTAL.....	115	115	103	.0	-10.4
FIRST-YEAR STUDENTS.....	32	31	29	.7	.7
BEYOND-FIRST-YEAR STUDENTS.....	83	84	74	1.2	-11.9
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,539	1,561	1,589	1.4	1.8
FIRST-YEAR STUDENTS.....	510	450	457	-11.8	1.6
BEYOND-FIRST-YEAR STUDENTS.....	1,029	1,111	1,132	8.0	1.9
U. S. CITIZENS, TOTAL.....	1,422	1,447	1,471	1.8	1.7
FIRST-YEAR STUDENTS.....	479	418	422	-12.7	1.0
BEYOND-FIRST-YEAR STUDENTS.....	943	1,029	1,049	9.1	1.9
FOREIGN STUDENTS, TOTAL.....	117	114	118	-2.6	3.5
FIRST-YEAR STUDENTS.....	31	32	35	.7	.7
BEYOND-FIRST-YEAR STUDENTS.....	86	82	83	-4.7	1.2
TEACHING ASSISTANTSHIPS, TOTAL.....	2,104	2,212	2,299	5.1	3.9
FIRST-YEAR STUDENTS.....	632	569	598	-10.0	5.1
BEYOND-FIRST-YEAR STUDENTS.....	1,472	1,643	1,701	11.6	3.5
U. S. CITIZENS, TOTAL.....	1,983	2,101	2,178	6.0	3.7
FIRST-YEAR STUDENTS.....	599	541	573	-9.7	5.9
BEYOND-FIRST-YEAR STUDENTS.....	1,384	1,560	1,605	12.7	2.9



FOREIGN STUDENTS, TOTAL..... 482  
FIRST-YEAR STUDENTS..... 145  
BEYOND-FIRST-YEAR STUDENTS..... 337

## TYPE OF MAJOR SUPPORT

FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	4,559	4,493	4,225	-1.4	-6.0
FIRST-YEAR STUDENTS.....	1,328	1,260	1,094	-5.1	-13.2
BEYOND-FIRST-YEAR STUDENTS.....	3,231	3,233	3,131	.1	-3.2
U. S. CITIZENS, TOTAL.....	4,444	4,378	4,122	-1.5	-5.8
FIRST-YEAR STUDENTS.....	1,296	1,229	1,065	-5.2	-13.3
BEYOND-FIRST-YEAR STUDENTS.....	3,148	3,149	3,057	□	-2.9
FOREIGN STUDENTS, TOTAL.....	115	115	103	□	-10.4
FIRST-YEAR STUDENTS.....	32	31	29	*	*
BEYOND-FIRST-YEAR STUDENTS.....	83	84	74	1.2	-11.9
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,539	1,561	1,589	1.4	1.8
FIRST-YEAR STUDENTS.....	510	450	457	-11.8	1.6
BEYOND-FIRST-YEAR STUDENTS.....	1,029	1,111	1,132	8.0	1.9
U. S. CITIZENS, TOTAL.....	1,422	1,447	1,471	1.8	1.7
FIRST-YEAR STUDENTS.....	479	418	422	-12.7	1.0
BEYOND-FIRST-YEAR STUDENTS.....	943	1,029	1,049	9.1	1.9
FOREIGN STUDENTS, TOTAL.....	117	114	118	-2.6	3.5
FIRST-YEAR STUDENTS.....	31	32	35	*	*
BEYOND-FIRST-YEAR STUDENTS.....	86	82	83	-4.7	1.2
TEACHING ASSISTANTSHIPS, TOTAL.....	2,104	2,212	2,299	5.1	3.9
FIRST-YEAR STUDENTS.....	632	569	598	-10.0	5.1
BEYOND-FIRST-YEAR STUDENTS.....	1,472	1,643	1,701	11.6	3.5
U. S. CITIZENS, TOTAL.....	1,983	2,101	2,178	6.0	3.7
FIRST-YEAR STUDENTS.....	599	541	573	-9.7	5.9
BEYOND-FIRST-YEAR STUDENTS.....	1,384	1,560	1,605	12.7	2.9
FOREIGN STUDENTS, TOTAL.....	121	111	121	-8.3	9.0
FIRST-YEAR STUDENTS.....	33	28	25	*	*
BEYOND-FIRST-YEAR STUDENTS.....	88	83	96	-5.7	15.7
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	2,940	3,006	3,704	2.2	23.2
FIRST-YEAR STUDENTS.....	838	915	1,051	9.2	14.9
BEYOND-FIRST-YEAR STUDENTS.....	2,102	2,091	2,653	-.5	26.9
U. S. CITIZENS, TOTAL.....	2,811	2,892	3,568	2.9	23.4
FIRST-YEAR STUDENTS.....	789	879	1,005	11.4	14.3
BEYOND-FIRST-YEAR STUDENTS.....	2,022	2,013	2,563	-.4	27.3
FOREIGN STUDENTS, TOTAL.....	129	114	136	-11.6	19.3
FIRST-YEAR STUDENTS.....	49	36	46	*	*
BEYOND-FIRST-YEAR STUDENTS.....	80	78	90	-2.5	15.4

□ LESS THAN 0.05 PERCENT CHANGE.

\* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-188. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,  
BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	26,753	26,593	26,361	-0.6	-0.9
FIRST-YEAR STUDENTS.....	9,305	8,988	8,444	-3.4	-6.1
BEYOND-FIRST-YEAR STUDENTS.....	17,448	17,605	17,917	.9	1.8
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	22,574	22,133	22,024	-2.0	-.5
FIRST-YEAR STUDENTS.....	7,895	7,502	7,160	-5.0	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	14,679	14,631	14,864	-.3	1.6
FOREIGN STUDENTS, TOTAL.....	4,179	4,460	4,337	6.7	-2.8
FIRST-YEAR STUDENTS.....	1,410	1,486	1,284	5.4	-13.6
BEYOND-FIRST-YEAR STUDENTS.....	2,769	2,974	3,053	7.4	2.7
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,712	8,463	7,956	-2.9	-6.0
FIRST-YEAR STUDENTS.....	2,864	2,667	2,293	-6.9	-14.0
BEYOND-FIRST-YEAR STUDENTS.....	5,848	5,796	5,663	-.9	-2.3
U. S. CITIZENS, TOTAL.....	7,212	6,804	6,359	-5.7	-6.5
FIRST-YEAR STUDENTS.....	2,326	2,060	1,781	-11.4	-13.5
BEYOND-FIRST-YEAR STUDENTS.....	4,886	4,744	4,578	-2.9	-3.5
FOREIGN STUDENTS, TOTAL.....	1,500	1,659	1,597	10.6	-3.7
FIRST-YEAR STUDENTS.....	538	607	512	12.8	-15.7
BEYOND-FIRST-YEAR STUDENTS.....	962	1,052	1,085	9.4	3.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	2,514	2,458	2,420	-2.2	-1.5
FIRST-YEAR STUDENTS.....	701	749	706	6.8	-5.7
BEYOND-FIRST-YEAR STUDENTS.....	1,813	1,709	1,714	-5.7	.3
U. S. CITIZENS, TOTAL.....	1,987	1,930	1,953	-2.9	1.2
FIRST-YEAR STUDENTS.....	583	613	604	5.1	-1.5
BEYOND-FIRST-YEAR STUDENTS.....	1,404	1,317	1,349	-6.2	2.4
FOREIGN STUDENTS, TOTAL.....	527	528	467	.2	-11.6
FIRST-YEAR STUDENTS.....	118	136	102	15.3	-25.0
BEYOND-FIRST-YEAR STUDENTS.....	409	392	365	-4.2	-6.9
TEACHING ASSISTANTSHIPS, TOTAL.....	5,107	5,166	5,118	1.2	-.9
FIRST-YEAR STUDENTS.....	1,247	1,146	1,084	-8.1	-5.4
BEYOND-FIRST-YEAR STUDENTS.....	3,860	4,020	4,034	4.1	.3
U. S. CITIZENS, TOTAL.....	4,334	4,376	4,391	1.0	.3
FIRST-YEAR STUDENTS.....	1,052	989	956	-6.0	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	3,282	3,387	3,435	3.2	1.4
FOREIGN STUDENTS, TOTAL.....	773	750	727	2.2	-8.0

TYPE OF MAJOR SUPPORT

FIRST-YEAR STUDENTS.....	1,695	7,502	7,180	1,895	-2.9	-2.9	-6.0
BEYOND-FIRST-YEAR STUDENTS.....	14,679	14,631	14,864	14,864	-3	-3	1.6
FOREIGN STUDENTS, TOTAL.....	4,179	4,460	4,337	4,337	6.7	6.7	-2.8
FIRST-YEAR STUDENTS.....	1,410	1,486	1,284	1,284	5.4	5.4	-13.6
BEYOND-FIRST-YEAR STUDENTS.....	2,769	2,974	3,053	3,053	7.4	7.4	2.7
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,712	8,463	7,956	7,956	-2.9	-2.9	-6.0
FIRST-YEAR STUDENTS.....	2,864	2,667	2,293	2,293	-6.9	-6.9	-14.0
BEYOND-FIRST-YEAR STUDENTS.....	5,848	5,796	5,663	5,663	-9	-9	-2.3
U. S. CITIZENS, TOTAL.....	7,212	6,804	6,359	6,359	-5.7	-5.7	-6.5
FIRST-YEAR STUDENTS.....	2,326	2,060	1,781	1,781	-11.4	-11.4	-13.5
BEYOND-FIRST-YEAR STUDENTS.....	4,886	4,744	4,578	4,578	-2.9	-2.9	-3.5
FOREIGN STUDENTS, TOTAL.....	1,500	1,659	1,597	1,597	10.6	10.6	-3.7
FIRST-YEAR STUDENTS.....	538	607	512	512	12.8	12.8	-15.7
BEYOND-FIRST-YEAR STUDENTS.....	962	1,052	1,085	1,085	9.4	9.4	3.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	2,514	2,458	2,420	2,420	-2.2	-2.2	-1.5
FIRST-YEAR STUDENTS.....	701	749	706	706	6.8	6.8	-5.7
BEYOND-FIRST-YEAR STUDENTS.....	1,813	1,709	1,714	1,714	-5.7	-5.7	.3
U. S. CITIZENS, TOTAL.....	1,987	1,930	1,953	1,953	-2.9	-2.9	1.2
FIRST-YEAR STUDENTS.....	583	613	604	604	5.1	5.1	-1.5
BEYOND-FIRST-YEAR STUDENTS.....	1,404	1,317	1,349	1,349	-6.2	-6.2	2.4
FOREIGN STUDENTS, TOTAL.....	527	528	467	467	.2	.2	-11.6
FIRST-YEAR STUDENTS.....	118	136	102	102	15.3	15.3	-25.0
BEYOND-FIRST-YEAR STUDENTS.....	409	392	365	365	-4.2	-4.2	-6.9
TEACHING ASSISTANTSHIPS, TOTAL.....	5,107	5,166	5,118	5,118	1.2	1.2	-.9
FIRST-YEAR STUDENTS.....	1,247	1,146	1,084	1,084	-8.1	-8.1	-5.4
BEYOND-FIRST-YEAR STUDENTS.....	3,860	4,020	4,034	4,034	4.1	4.1	.3
U. S. CITIZENS, TOTAL.....	4,334	4,376	4,391	4,391	1.0	1.0	.3
FIRST-YEAR STUDENTS.....	1,052	989	956	956	-6.0	-6.0	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	3,282	3,387	3,435	3,435	3.2	3.2	1.4
FOREIGN STUDENTS, TOTAL.....	773	790	727	727	2.2	2.2	-8.0
FIRST-YEAR STUDENTS.....	195	157	128	128	-19.5	-19.5	-18.5
BEYOND-FIRST-YEAR STUDENTS.....	578	633	599	599	9.5	9.5	-5.4
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	10,420	10,506	10,867	10,867	.8	.8	3.4
FIRST-YEAR STUDENTS.....	4,493	4,426	4,361	4,361	-1.5	-1.5	-1.5
BEYOND-FIRST-YEAR STUDENTS.....	5,927	6,080	6,506	6,506	2.6	2.6	7.0
U. S. CITIZENS, TOTAL.....	9,041	9,023	9,321	9,321	-.2	-.2	3.3
FIRST-YEAR STUDENTS.....	3,934	3,840	3,819	3,819	-2.4	-2.4	-.5
BEYOND-FIRST-YEAR STUDENTS.....	5,107	5,183	5,502	5,502	1.5	1.5	6.2
FOREIGN STUDENTS, TOTAL.....	1,379	1,483	1,546	1,546	7.5	7.5	4.2
FIRST-YEAR STUDENTS.....	559	586	542	542	4.8	4.8	-7.5
BEYOND-FIRST-YEAR STUDENTS.....	820	897	1,004	1,004	9.4	9.4	11.9

TABLE C-19. FULL-TIME FACULTY IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY AREA OF SCIENCE, 1969-71

AREA OF SCIENCE	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TOTAL.....	50,211	51,379	51,528	2.3	0.3
ENGINEERING.....	10,736	10,905	10,775	1.6	-1.2
PHYSICAL SCIENCES.....	10,187	10,355	10,384	1.6	.3
MATHEMATICAL SCIENCES.....	5,419	5,627	5,546	3.8	-1.4
LIFE SCIENCES.....	12,244	12,465	12,698	1.8	1.9
PSYCHOLOGY.....	3,081	3,255	3,274	5.6	.6
SOCIAL SCIENCES.....	8,544	8,772	8,851	2.7	.9
ALL FULL-TIME FACULTY					
TOTAL.....	42,109	43,820	44,125	4.1	.7
ENGINEERING.....	8,948	9,218	9,244	3.0	.3
PHYSICAL SCIENCES.....	9,086	9,337	9,217	2.8	-.6
MATHEMATICAL SCIENCES.....	4,284	4,573	4,580	6.7	.2
LIFE SCIENCES.....	10,021	10,277	10,603	2.6	3.2
PSYCHOLOGY.....	2,703	2,974	2,967	10.0	-.2
SOCIAL SCIENCES.....	7,067	7,441	7,454	5.3	.2
GRADUATE FACULTY					

TABLE C-20. POSTDOCTORALS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY AREA OF SCIENCE, 1969-71

AREA OF SCIENCE	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TOTAL.....	7,996	8,013	8,438	0.2	5.3
ENGINEERING.....	732	735	827	.4	12.5
PHYSICAL SCIENCES.....	3,747	3,672	3,945	-2.0	7.4
MATHEMATICAL SCIENCES.....	231	226	212	-2.2	-6.2
LIFE SCIENCES.....	2,821	2,953	3,016	4.7	2.1
PSYCHOLOGY.....	220	232	243	5.5	4.7
SOCIAL SCIENCES.....	245	195	195	-20.4	.0
ALL POSTDOCTORAL APPOINTEES					
TOTAL.....	5,394	5,463	6,040	1.3	10.6
ENGINEERING.....	474	452	529	-4.6	17.0
PHYSICAL SCIENCES.....	2,888	2,808	3,057	-2.8	8.9
MATHEMATICAL SCIENCES.....	135	144	134	6.7	-6.9
LIFE SCIENCES.....	1,676	1,832	2,065	9.3	12.7
PSYCHOLOGY.....	132	145	175	9.8	20.7
SOCIAL SCIENCES.....	89	82	80	-7.9	-2.4
RECENT DOCTORALS					

## APPENDIX D

### Instructions and Consolidated Departmental Data Sheets (NSF Form 345) — Doctorate Departments

Table	Page
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## INSTRUCTIONS FOR COMPLETING THE DEPARTMENTAL DATA SHEET

For further information on the Graduate Traineeship Program, refer to the Announcement (E 71-G-5). Completed copies of the Departmental Data Sheet should be forwarded to the designated Coordinating Official at the institution. Copies of the form should be prepared in sufficient numbers and in time so that the institution can complete its review and forward three (3) copies (reproductions of the original, not carbons) of each sheet being submitted, to reach the National Science Foundation not later than October 16, 1971.

### Item 5-

Give the numbers of degrees conferred between 7/1/70 and 6/30/71. Under A insert the number of bachelor's degrees (include five year professional degrees). Under B insert the number of master's degrees (excluding degrees in the teaching of science e.g. M.A.T.). Under C insert the number of master's degrees in the teaching of science (e.g., M.A.T.). Under D insert the number of doctoral degrees. Degrees awarded jointly by two or more departments should be recorded on one departmental data sheet only.

### Item 6-

A full-time graduate student is defined here as a bona fide graduate student (not a regular staff member, e.g., an instructor) who is engaged entirely in training activities in his field of science; these activities may embrace any appropriate combination of study, teaching, and research. (Some institutions use the phrase "geographical full-time student" to describe such students).

A first-year graduate student is defined for this program as one who will have completed less than one normal year of graduate study as of the beginning of the Fall term of 1971. All other students should be considered beyond first level.

Insert in each appropriate box the number of students who are simultaneously (a) full-time graduate students (defined above), (b) enrolled in an advanced degree program, and (c) receiving a total stipend of \$1200 or more--not counting tuition and excluding personal, family and loan sources--during the 1971-1972 academic year.

All students meeting criteria (a) and (b), but not (c), should be counted under "Self, Loans and Family." Full-time graduate students working for an advanced degree who are employees of another organization, on leave of absence, and whose major support is provided by their employer, should be listed by type of employer (e.g., industry). If a graduate student receives stipend support from more than one source, choose the major source. For cases of two or more equivalent sources choose one major source category so that using only whole numbers the departmental data sheet will give a reasonably accurate average support picture for the department.

Care should be used in listing support sources accurately so that students (particularly research assistants) supported under U. S. Government grants are listed under the appropriate U. S. Government agency (e.g. students supported on a AEC research grant should appear under AEC and students supported under an NSF Institutional Grant should appear under NSF, not under "This Institution").

Each row total given under ALL SOURCES is to be split into two components, First Year and Beyond First. Thus every full-time graduate student enrolled for an advanced degree is counted only once by major source of support and once again in a separate breakout by level (First Year or Beyond First) of study.

### Item 8-

These students are often called "special" or "non-degree" students. "Special" or "non-degree" students are those students possessing an

undergraduate degree who are enrolled in one or more graduate courses in the department Fall 1971, but who are not enrolled for an advanced degree (they have not been admitted to graduate school).

### Item 9-

The numbers of graduate students who are working for advanced degrees, but who are not pursuing graduate work full-time are enumerated under the four entries for part-time. Do not include "special" students who are not enrolled for advanced degrees (given in item 8) or students who have left your institution but are completing their theses while engaged in other activities.

### Item 10-

For items A, B, and C, only faculty of academic rank of instructor or above, who are significantly involved (i.e., teaching one or more courses or seminars and/or directing the research of one or more students) in the graduate and/or undergraduate academic program of the department as of the Fall 1971 should be counted, including faculty on sabbatical leave who are expected to return. Visiting professors should not be counted. Do not count postdoctorals or research associates: they are counted under item 11. Under A, give the number of full-time faculty who are staff (including the department head) of academic rank instructor or above with a full-time appointment in the department and whose major responsibilities are with the academic programs of the department. (A faculty member should be counted as full-time in only one department). Under B, give the number of faculty included under A who do not teach any regularly scheduled courses (research professors, research associates of professorial academic rank, etc.). Under C, give the number of faculty included under A who are significantly involved in the graduate academic program of the department (i.e., teaching one or more graduate courses or seminars and/or directing the research of one or more graduate students).

Under D, give the number of part-time graduate faculty (part-time in this department), defined to include all faculty who are significantly involved in the graduate academic program (see C, above) but whose major responsibilities or activities are outside the department. Part-time will usually include senior university administrators (deans, etc.) affiliate or adjunct professors (from other departments or outside the university), professors emeriti, experiment laboratory or extension service staff, museum staff, etc.

### Item 11-

Postdoctorals or Research Associates include individuals with a doctorate (including foreign degrees that are equivalent to U.S. doctorates) who devote full-time to research activities or study in the department under temporary appointments carrying no academic rank (instructor or above). Such appointments are usually for a specific time period. They may contribute to the academic program through seminars, lectures, or working with graduate students. Their post-doctoral activities have an element of additional training for them.

Under A, give the total number of Postdoctorals and/or Research Associates as defined above, as of the Fall of 1971. Of this number enter under B the number who are teaching one or more regularly scheduled courses; under C, give the number of Postdoctorals and/or Research Associates (defined above) who received their doctorates in 1966 or later.

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET**

*(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)*

**SUMMARY OF**

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet: 2,990 Doctorate Science Departments
3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 110,005 MS 32,551 MAT 1,748 Ph.D. 17,613  
also BA, etc. also MA, etc. (Ex. MAT., etc.) MAT., etc. Ph.D., D.Sc., etc.

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)					
		AEC	USOA	OOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Government
					NDEA	PHS (NIH)	OTHER HEW										
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(o)
Fellowships and Traineeships	United States	1	246	28	299	4,720	8,367	970	434	5,402	1,861	22,327	5,442	1,768	1,196	260	8
	Foreign	2		11	20	25	144	20	36		599	855	1,688	825	179	149	2
Graduate Research Assistantships	United States	3	1,286	675	2,106	31	2,142	301	835	4,090	1,876	13,342	6,293	749	706	223	7
	Foreign	4	503	206	1,174	5	705	54	339	1,719	855	5,560	2,126	256	323	43	2
Graduate Teaching Assistantships	United States	5				58	24			164	108	354	27,928	100	9	119	28
	Foreign	6				14	5			25	33	77	6,514	16	7	16	6
Other Than Above	United States	7	17	54	1,003	15	97	23	48	178	895	2,330	2,203	183	1,162	25,365	1,319
	Foreign	8	2	9	27	11	3	2	2	20	182	256	421	101	127	6,511	411
Total	United States	9	1,549	757	3,408	4,766	10,664	1,318	1,317	9,834	4,740	38,353	41,866	2,800	3,073	25,365	1,921
	Foreign	10	505	226	1,221	30	874	82	377	1,764	1,669	6,748	10,749	1,198	636	6,511	619
TOTALS		11	2,054	983	4,629	4,796	11,538	1,400	1,694	11,598	6,409	45,101	52,615	3,998	3,709	31,876	2,540

7. The number of students included in the above table (item 6) who are:
- (A) supported with full tuition from this institution 37,550. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
- (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 8,976.
- (C) receiving support from more than one source, exclusive of self, loans, and family 8,782.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	
13,096	22,528	1,541	2,667	39,832

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME Graduate
Total	Nonteaching	Graduate	
57,363	2,749	48,826	9,226

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
9,250	886	6,548

FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
(GO OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Sponsoring Institutions Applying in the 1972 GTP.  
2,990 Doctorate Science Departments

Name \_\_\_\_\_ Title \_\_\_\_\_  
☐ ONE ONLY) Masters ☐ Ph.D. ☒  
 BS 110,005 MS 32,551 MAT 1,748 Ph.D. 17,613  
 also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-1  
SUMMARY OF RESPONSES FOR FALL 1971

U.S. GOVERNMENT (EXCLUDING LOANS)									OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
USDA	DOO	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non- profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub- totals		Total	First year	Beyond first
		NOEA	PHS (NIH)	OTHER HEW														
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
28 11	299 20	4,720 25	8,367 144	970 20	434 36	5,402	1,861 599	22,327 855	5,442 1,688	1,768 825	1,196 179		260 149	8,666 2,841	42 1,372	31,035 5,068	8,708 1,660	22,327 3,408
675 206	2,106 1,174	31 5	2,142 705	301 54	835 339	4,090 1,719	1,876 855	13,342 5,560	6,293 2,126	749 256	706 323		223 43	7,971 2,748	47	21,313 8,355	4,949 1,360	16,364 6,995
			58 14	24 5		164 25	108 33	354 77	27,928 6,514	100 16	9 7		119 16	28,156 6,553		28,510 6,630	8,896 1,597	19,614 5,032
54 9	1,003 27	15	97 11	23 3	48 2	178 20	895 182	2,330 256	2,203 421	183 101	1,162 127	25,365 6,511	1,319 411	30,232 7,571	869	32,562 8,696	13,620 3,926	18,942 4,770
757 226	3,408 1,221	4,766 30	10,664 874	1,318 82	1,317 377	9,834 1,764	4,740 1,669	38,353 6,748	41,866 10,749	2,800 1,198	3,073 636	25,365 6,511	1,921 619	75,025 19,713	42 2,288	113,420 28,740	36,173 8,543	77,247 20,206
983	4,629	4,796	11,538	1,400	1,694	11,599	6,409	45,101	52,615	3,998	3,709	31,876	2,540	94,738	2,330	142,169	44,716	97,453

(item 6) who are:

- (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 8,976.  
 (C) receiving support from more than one source, exclusive of self, loans, and family 8,782.

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 8,919.

Degrees of students.		10. Numbers of faculty members:			
		FULL-TIME DEPARTMENTAL - FACULTY		PART TIME	
		Total	Nonteaching	Graduate	Graduate
Foreign	2,667	57,363	2,749	48,826	9,226
Total	39,832				

Doctorals  
6,548



(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.

2. Department (or unit) covered by this data sheet: 664 Engineering Doctorate Departments

3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_

4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒

5. Number of degrees granted 7/1/70 through 6/30/71:

BS	27,165	MS	12,069	MAT	174	Ph.D.	3,720
also BA, etc.		also MA, etc. (Ex. MAT, etc.)		MAT., etc.		Ph.D. D.Sc., etc.	

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 7,145. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.	(B) performing some regular <u>teaching</u> activity but who do <u>not</u> receive their <u>major</u> support from a graduate teaching assistantship 1,112.	(C) receiving support from <u>more than one</u> source, exclusive of self, loans, and family 1,761.
--	---	---

9. Part-time graduate students enrolled for <u>advanced degrees</u> Fall 1971 by level of study; do not include "special" students.					10. Numbers of faculty members:			
U. S. CITIZENS		FOREIGN		TOTAL	FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
1st year	Beyond 1st	1st year	Beyond 1st	Part time	Total	Nonteaching	Graduate	Graduate
6,965	7,985	1,066	1,492	17,508	11,624	398	9,954	1,517

11. Number of Postdoctorals/Research Associates:		
Total	Teaching	Recent Doctorals
913	87	582

SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
BE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.  
Data sheet: 664 Engineering Doctorate Departments

ing this form: Name \_\_\_\_\_ Title \_\_\_\_\_  
71 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒  
ough 6/30/71: BS 27,165 MS 12,069 MAT 174 Ph.D. 3,720  
also BA, etc. also MA, etc. (Ex. MAT., etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-2  
SUMMARY OF RESPONSES FOR FALL 1971

	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)							Foreign sources	ALL SOURCES		
	AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub- total	This Insti- tution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals	Total		First year	Beyond first	
				NDEA	PHS (NIH)	OTHER HEW															
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)	
1	175	2	107	695	640	125	203	1,089	636	3,672	739	299	762		28	1,828	14	5,514	2,309	3,205	
2			5	6	38	4	26		74	153	431	126	92		36	685	435	1,273	540	733	
3	208	31	1,018	7	194	34	374	795	641	3,302	1,355	122	329		48	1,854		5,156	1,736	3,420	
4	163	14	813	4	126	17	239	771	523	2,670	945	83	206		15	1,249	11	3,930	727	3,203	
5					2			34	17	53	2,691	7	4		3	2,705		2,758	1,066	1,692	
6					4			8	15	27	1,575	2	4		1	1,582		1,609	350	1,259	
7	6	8	626	1	11		33	5	454	1,144	276	17	726	4,087	207	5,313		6,457	3,151	3,306	
8	1		23		1		2	8	81	116	166	29	84	3,180	118	3,577	512	4,205	2,140	2,065	
9	389	41	1,751	703	847	159	610	1,923	1,748	8,171	5,061	445	1,821	4,087	286	11,700	14	19,885	8,262	11,623	
10	164	14	841	10	169	21	267	787	693	2,966	3,117	240	386	3,180	170	7,093	958	11,017	3,757	7,260	
11	553	55	2,592	713	1,016	180	877	2,710	2,441	11,137	8,178	685	2,207	7,267	456	18,793	972	30,902	12,019	18,883	

above table (item 6) who are:  
this institution 7,145.  
charging no tuition, but  
from the U. S. Government

(B) performing some regular teaching activity  
but who do not receive their major support  
from a graduate teaching assistantship 1,112.

(C) receiving support from more  
than one source, exclusive of  
self, loans, and family 1,761.

8. Number of "special" students enrolled for  
graduate course work (full- or part-time) in  
this department who are not enrolled for  
an advanced degree 2,920.

advanced degrees  
ude "special" students.

FOREIGN TOTAL  
year Beyond 1st Part time  
066 1,492 17,508

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY PART TIME  
Total Nonteaching Graduate Graduate  
11,624 398 9,954 1,517

ociates:

Recent Doctorals  
582

# NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972 DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet: 524 Physical Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 8,922 MS 4,175 MAT 375 Ph.D. 4,235  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT, etc. Ph.D., D.Sc., etc.

SUMM

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)			
		AEC	USDA	DOJ	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family
					NDEA	PHS (NIH)	OTHER HEW								
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)
Fellowships and Traineeships	United States	1	37		66	945	385	31	118	1,389	129	3,100	906	219	247
	Foreign	2			1	6	10	5	9	37	68	289	83	39	
Graduate Research Assistantships	United States	3	965	22	845	5	553	27	401	2,192	464	5,474	686	220	93
	Foreign	4	295	4	259		178	4	82	646	131	1,599	218	65	43
Graduate Teaching Assistantships	United States	5					16	1		48	27	92	8,086	8	
	Foreign	6					3			7	8	18	2,306	2	
Other Than Above	United States	7	8	1	150	4	6	4	11	43	131	358	234	25	97
	Foreign	8	1		1			3		2	9	16	51	12	13
Total	United States	9	1,010	23	1,061	954	960	63	530	3,672	751	9,024	9,912	472	437
	Foreign	10	296	4	261	6	191	12	91	655	185	1,701	2,864	162	95
TOTALS		11	1,306	27	1,322	960	1,151	75	621	4,327	936	10,725	12,776	634	532

7. The number of students included in the above table (item 6) who are:  
(A) supported with full tuition from this institution 9,792. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.  
(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,254.  
(C) receiving support from more than one source, exclusive of self, loans, and family 2,467.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	
728	2,565	143	25	
				3,661

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL FACULTY			PART TIME
Total	Nonteaching	Graduate	
10,919	352	9,710	
			1,013

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
3,998	405	3,085

PHYSICAL SCIENCES FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
(BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.

Data sheet: 524 Physical Sciences Doctorate Departments

Filling this form: Name \_\_\_\_\_ Title \_\_\_\_\_

1971 (CHECK ONE ONLY) Masters ☐

Ph.D. ☒

through 6/30/71:

BS 8,922

MS 4,175

MAT 375

Ph.D. 4,235

also BA, etc.

also MA, etc. (Ex.  
MAT, etc.)

MAT., etc.

Ph.D., O.Sc., etc.

Table D-3

SUMMARY OF RESPONSES FOR FALL 1971

	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	AEC	USDA	ODD	HEW			NAGA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U.S. Sub-totals		Total	First year	Beyond first
				NOEA	PHS (NIH)	OTHER HEW														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
1	37		66	945	385	31	118	1,389	129	3,100	906	219	247		18	1,390	7	4,197	979	3,518
2			1	6	10	5	9		37	68	289	83	39		19	430	214	712	202	510
3	965	22	845	5	553	27	401	2,192	464	5,474	686	220	93		76	1,075		6,549	623	5,926
4	295	4	259		178	4	82	646	131	1,599	213	65	43		10	336	10	1,945	156	1,789
5					16	1		48	27	92	8,036	8			31	8,125		8,217	2,934	5,283
6					3			7	8	18	2,306	2			9	2,317		2,335	698	1,637
7	8	1	150	4	6	4	11	43	131	358	234	25	97	2,290	225	2,871		3,229	1,130	2,099
8	1		1			3		2	9	16	51	12	17	484	45	605	104	725	303	422
9	1,010	23	1,061	954	960	63	530	3,672	751	9,024	9,912	472	437	2,290	350	13,461	7	22,492	5,666	16,826
10	296	4	261	6	191	12	91	655	185	1,701	2,864	162	95	484	83	3,688	328	5,717	1,359	4,358
11	1,306	27	1,322	960	1,151	75	621	4,327	936	10,725	12,776	634	532	2,774	433	17,149	335	28,209	7,025	21,184

From the above table (item 6) who are:

From this institution 9,792.

Not charging no tuition, but

from the U. S. Government

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,254.

(C) receiving support from more than one source, exclusive of self, loans, and family 2,467.

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 944.

For advanced degrees  
Include "special" students.

FOREIGN  
First year 143  
Beyond 1st year 225  
TOTAL  
Part time 3,661

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY  
Total 10,919  
Nonteaching 352  
Graduate 9,710  
PART TIME  
Graduate 1,013

Associates:

Recent Doctorals  
3,085

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.

2. Department (or unit) covered by this data sheet: 214 Mathematical Sciences Doctorate Departments

3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_

4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒

5. Number of degrees granted 7/1/70 through 6/30/71:

8S 8,373	MS 3,053	MAT 615	Ph.D. 1,231
also BA, etc.	also MA, etc. (Ex.	MAT., etc.	Ph.D., D.Sc., etc.

## SUMMARY

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6—instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)				
		AEC	USDA	DOD	HEW			NASA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other
					NDEA	PHS (NIH)	OTHER HEW									
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)
Fellowships and Traineeships	United States Foreign	1 2	2	29	358 1	127 2	52	40 1	702	55 18	1,366 22	358 157	78 29	89 8		5 8
Graduate Research Assistantships	United States Foreign	3 4	35 17	3 81	135 1	2 9	15 1	6 3	227 134	35 28	458 274	247 84	4	1 1		
Graduate Teaching Assistantships	United States Foreign	5 6				1			28 4	9	38 4	4,197 931	6 1	1 1		28
Other Than Above	United States Foreign	7 8	1	57	8	3 1	1	1	68 6	40 11	179 18	214 47	8 8	113 9	1,984 614	67 19
Total	United States	9	36	6	221	368	53	47	1,025	139	2,041	5,016	96	204	1,984	100
Total	Foreign	10	17	81	2	12	1	4	144	57	318	1,219	38	19	614	27
TOTALS		11	53	6	302	370	54	51	1,169	196	2,359	6,235	134	223	2,598	127

(A) supported with full tuition from this institution 3,836.  
Include students in institutions charging no tuition, but  
not those whose tuition comes from the U. S. Government  
or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 664.

(C) receiving support from more than one source, exclusive of self, loans, and family 818.

9. Part-time graduate students enrolled for advanced degrees  
Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
1,363	2,124	71	125	3,683

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
6,000	51	4,962	512

**11. Number of Postdoctorals/Research Associates:**

Total	Teaching	Recent Doctorals
236	66	148

AL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
(BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

224 Doctorate-granting Institutions Applying in the 1972 GTP.  
Data sheet: 214 Mathematical Sciences Doctorate Departments  
Filling this form: Name \_\_\_\_\_ Title \_\_\_\_\_  
1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒  
through 6/30/71: BS 8,373 MS 3,053 MAT 615 Ph.D. 1,231  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-4

SUMMARY OF RESPONSES FOR FALL 1971

Institutions	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
				NDEA	PHS (NIH)	OTHER HEW														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
1	1	2	29	358	127	52	40	702	55	1,366	358	78	89		5	530	10	1,906	552	1,354
2				1	2		1		18	22	157	29	8		8	202	90	314	69	245
3	35	3	135	2	15		6	227	35	458	247	4	1			252		710	157	553
4	17		81	1	9	1	3	134	28	274	84		1			85	3	362	57	305
5					1			28	9	38	4,197	6	1		28	4,232		4,270	1,344	2,926
6								4		4	931	1	1			933		937	191	746
7		1	57	8	3	1	1	68	40	179	214	8	113	1,984	67	2,386		2,565	1,182	1,383
8					1			6	11	18	47	8	9	614	19	697	37	752	349	403
9	36	6	221	368	146	53	47	1,025	139	2,041	5,016	96	204	1,984	100	7,400	10	9,451	3,235	6,216
10	17		81	2	12	1	4	144	57	318	1,219	38	19	614	27	1,917	130	2,265	666	1,699
11	53	6	302	370	158	54	51	1,169	196	2,359	6,235	134	223	2,598	127	9,317	140	11,816	3,901	7,915

the above table (item 6) who are:  
in this institution 3,836.  
is charging no tuition, but  
from the U. S. Government

(B) performing some regular teaching activity  
but who do not receive their major support  
from a graduate teaching assistantship 664.

(C) receiving support from more  
than one source, exclusive of  
self, loans, and family 818.

8. Number of "special" students enrolled for  
graduate course work (full- or part-time) in  
this department who are not enrolled for  
an advanced degree 1,265.

for advanced degrees  
include "special" students.

FOREIGN TOTAL  
1st year Beyond 1st Part time  
71 125 3,683

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY PART TIME  
Total Nonteaching Graduate Graduate  
6,000 51 4,962 512

Associates:

Recent Doctorals  
148

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET**

*(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)*

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet: 924 Life Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 20,140 MS 4,426 MAT 374 Ph.D. 3,821  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

**SUMMARY**

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)				
			AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other
						NDEA	PHS (NIH)	OTHER HEW									
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)
Fellowships and Traineeships	United States	1	33	11	32	923	3,976	165	39	1,026	226	6,431	893	307	57		65
	Foreign	2		8		4	69	3			183	267	253	179	29		33
Graduate Research Assistantships	United States	3	66	529	50	6	814	34	36	536	460	2,531	1,971	225	248		62
	Foreign	4	25	161	13		324	15	13	101	105	757	546	71	68		10
Graduate Teaching Assistantships	United States	5					38	17		19	9	83	5,639	62	4		34
	Foreign	6					7	5			5	17	790	7	2		4
Other Than Above	United States	7	3	27	23	2	41	10	3	48	96	253	323	31	89	4,921	254
	Foreign	8		9	1		9			2	57	78	59	25	16	652	160
Total	United States	9	102	567	105	931	4,869	226	78	1,629	791	9,298	8,826	625	398	4,921	415
	Foreign	10	25	178	14	4	409	23	13	103	350	1,119	1,648	282	115	652	207
TOTALS			11	127	745	119	935	5,278	249	91	1,732	1,141	10,417	10,474	907	5,573	622

7. The number of students included in the above table (item 6) who are:
  - (A) supported with full tuition from this institution 7,195. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
  - (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,893.
  - (C) receiving support from more than one source, exclusive of self, loans, and family 1,955.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	
773	2,392	54	175	
				Part time 3,394

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
15,262	1,481	12,588	4,040

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
3,642	276	2,462

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972**  
**DEPARTMENTAL DATA SHEET**  
*BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE*

of 224 Doctorate-granting Institutions Applying in the 1972 GTP.

This data sheet: 924 Life Sciences Doctorate Departments

Preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_

all of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒

7/0 through 6/30/71: BS 20,140 MS 4,426 MAT 374 Ph.D. 3,821  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT, etc. Ph.D., D.Sc., etc.

Table D-5

**SUMMARY OF RESPONSES FOR FALL 1971**

Institutional Degrees	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	AEC	USDA	ODD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub- total	This In- stitution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals		Total	First year	Beyond first
				NOEA	PHS (NIH)	OTHER HEW														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
Institutional Degrees 1	33	11	32	923	3,976	165	39	1,026	226	6,431	893	307	57		65	1,322	4	7,757	1,655	6,102
Institutional Degrees 2		8		4	69	3			183	267	253	179	29		33	494	220	981	277	704
Institutional Degrees 3	66	529	50	6	814	34	36	536	460	2,531	1,971	225	248		62	2,506		5,037	1,230	3,807
Institutional Degrees 4	25	161	13		324	15	13	101	105	757	546	71	68		10	695	21	1,473	267	1,206
Institutional Degrees 5					38	17		19	9	83	5,639	62	4		34	5,739		5,822	1,722	4,100
Institutional Degrees 6					7	5			5	17	790	7	2		4	803		820	189	631
Institutional Degrees 7	3	27	23	2	41	10	3	48	96	253	323	31	89	4,921	254	5,673		5,871	2,581	3,290
Institutional Degrees 8		9	1		9			2	57	78	59	25	16	652	160	812	137	1,127	455	672
Institutional Degrees 9	1, 2	567	105	931	4,869	226	78	1,629	791	9,298	8,826	625	398	4,921	415	15,185	4	24,487	7,188	17,299
Institutional Degrees 10	21	178	14	4	409	23	13	103	350	1,119	1,648	282	115	652	207	2,904	378	4,401	1,188	3,213
Institutional Degrees 11	127	745	119	935	5,278	249	21	1,732	1,141	10,417	10,474	907	513	5,573	622	18,089	382	28,888	8,376	20,512

and in the above table (item 6) who are:

from this institution 7,195.  
institutions charging no tuition, but  
comes from the U. S. Government  
ce.

(B) performing some regular teaching activity  
but who do not receive their major support  
from a graduate teaching assistantship 2,893.

(C) receiving support from more  
than one source, exclusive of  
self, loans, and family 1,955.

8. Number of "special" students enrolled for  
graduate course work (full- or part-time) in  
this department who are not enrolled for  
an advanced degree 1,457.

rolled for advanced degrees  
not include "special" students.

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL FACULTY  
Total 15,262 Nonteaching 1,481 Graduate 12,588

PART TIME  
Graduate 4,040

FOREIGN  
1st year 54 Beyond 1st 175  
TOTAL  
Part time 3,394

Arch Associates:

Recent Doctorals  
2,462



**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET**

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet: 147 Psychology Doctorate Departments
3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: 8S 15,768 MS 2,044 MAT 14 Ph.D. 1,632  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT, etc. Ph.D. D.Sc., etc.

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)

TYPES OF SUPPORT		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)			
		AEC	USDA	DOD	HEW			NASA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family
					NDEA	PHS (NIH)	OTHER HEW								
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)
Fellowships and Traineeships	United States	1		20	395	2,074	194	20	323	504	3,530	633	115	18	
	Foreign	2			1	11	2			7	21	38	17		
Graduate Research Assistantships	United States	3	3	45	9	479	168	12	169	94	979	541	38	25	
	Foreign	4		4		50	7		17	8	86	30	5	2	
Graduate Teaching Assistantships	United States	5				1			7	5	13	2,446	2		
	Foreign	6										142			
Other Than Above	United States	7		9		26	8		1	94	138	621	64	56	2,692
	Foreign	8							1	7	8	18	3		98
Total	United States	9	3	74	404	2,580	370	32	500	697	4,660	4,241	219	99	2,692
	Foreign	10		4	1	61	9		18	22	115	228	25	2	98
TOTALS		11	3	78	405	2,641	379	32	518	719	4,775	4,469	244	101	2,790

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 2,822.  
Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,008.

(C) receiving support from more than one source, exclusive of self, loans, and family 580.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	
378	1,404	18	32	1,832

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
3,603	88	3,260	798

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
257	22	185

SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
BE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate granting Institutions Applying in the 1972 GTP.

Sheet: 147 Psychology Doctorate Departments

By this form: Name \_\_\_\_\_ Title \_\_\_\_\_

71 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒

Through 6/30/71: BS 15,768 MS 2,044 MAT 14 Ph.D. 1,632  
also BA, etc. also MA, etc. (Ex. MAT., etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-6

SUMMARY OF RESPONSES FOR FALL 1971

U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
			NDEA	PHS (NIH)	OTHER HEW														
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
		20	395 1	2,074 11	194 2	20	323	504 7	3,530 21	633 38	115 17	18		61 3	827 58	2 32	4,359 111	1,135 32	3,224 79
3		45 4	9	479 50	168 7	12	169 17	94 8	979 86	541 30	38 5	25 2		26 4	630 41	2	1,609 129	484 38	1,125 91
				1			7	5	13	2,446 142	2			5	2,453 142		2,466 142	670 29	1,796 113
		9		26	8		1 1	94 7	138 8	621 18	64 3	56	2,692 98	245 14	3,678 133	8	3,816 149	1,099 54	2,717 95
3		74 4	404 1	2,580 61	370 9	32	500 18	697 22	4,660 115	4,241 228	219 25	99 2	2,692 98	337 21	7,588 374	2 42	12,250 531	3,388 153	8,862 378
3		78	405	2,641	379	32	518	719	4,775	4,469	244	101	2,790	358	7,962	44	12,781	3,541	9,240

Above table (item 6) who are:

at this institution 2,822  
charging no tuition, but  
in the U. S. Government

(B) performing some regular teaching activity  
but who do not receive their major support  
from a graduate teaching assistantship 1,008.

(C) receiving support from more  
than one source, exclusive of  
self, loans, and family 580.

8. Number of "special" students enrolled for  
graduate course work (full- or part-time) in  
this department who are not enrolled for  
an advanced degree 669.

Advanced degrees  
of "special" students.

FOREIGN  
Beyond 1st  
32

TOTAL  
Part time  
1,832

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY  
Total Nonteaching Graduate  
3,603 88 3,260

PART TIME  
Graduate  
798

icates:

Recent Doctorals  
185

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

- ## SUMMARY OF RE

<p>7. The number of students included in the above table (item 6) who are:</p> <p>(A) supported with full tuition from this institution 6,760. include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.</p>	<p>(B) performing some regular <u>teaching</u> activity but who do <u>not</u> receive their <u>major</u> support from a graduate teaching assistantship 1,045.</p>	<p>(C) receiving support from <u>more than one</u> source, exclusive of self, loans, and family 1,201.</p>	<p>8. Number of graduate students in this department receiving an advanced degree 1,201.</p>
---	--	--	--

7. The number of students included in the above table (item 6) who are:
- |  |   |  |
|--|---|--|
| (A) supported with full tuition from this institution 6,760.<br>include students in institutions charging no tuition, but<br>not those whose tuition comes from the U. S. Government<br>or a non-institutional source. | (B) performing some/regular <u>teaching</u> activity<br>but who do <u>not</u> receive their <u>major</u> support<br>from a graduate teaching assistantship 1,045. | (C) receiving support from <u>more</u><br><u>than one</u> source, exclusive of<br>self, loans, and family 1,201. |
|--|---|--|
8. Number of graduate students in this department who received an advanced degree from this institution 1,045.

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
9,955	379	8,352	1,346

- |       |          |                  |
|-------|----------|------------------|
| Total | Teaching | Recent Doctorals |
| 204   | 30       | 86               |

**FOUNDATION GRADUATE TRAINEESHIPS FOR 1972**  
**DEPARTMENTAL DATA SHEET**  
**PLEASE READ THE INSTRUCTIONS ON THE REVERSE!**

Institutions Applying in the 1972 GTP:  
 Social Sciences Doctorate Departments

Name \_\_\_\_\_ Title \_\_\_\_\_

PLEASE ONLY: Masters ☐

Ph.D. ☒

BS 29,637

MS 6,784

MAT 196

Ph.D. 2,974

also BA, etc.

also MA, etc. (E.g.,  
MAT, etc.)

MAT, etc.

Ph.D., D.Sc., etc.

Table D-7

**SUMMARY OF RESPONSES FOR FALL 1971**

U.S. GOVERNMENT (EXCLUDING LOANS)									OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
SDA	DOD	HEW			NASA	NSF	Other U.S. Government	U.S. Government Sub- total	This Insti- tution and State and local govern- ment	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U.S. Sub- totals		Total	First year	Beyond first
		NDEA	PHS (NIH)	OTHER HEW														
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
13 3	45 14	1,404 7	1,165 14	403 6	14	873	311 280	4,228 324	1,913 520	750 391	23 11		83 50	2,769 972	5 381	7,002 1,677	2,078 540	4,924 1,137
90 27	13 4	2	87 18	38 10	6 2	171 50	182 60	598 174	1,493 303	140 32	10 3		11 4	1,654 342		2,252 516	719 115	1,533 401
				6		28 6	41 5	75 11	4,869 770	15 4			18 2	4,902 776		4,977 787	1,160 140	3,817 647
17	138 2		10			13 1	80 17	258 20	535 80	38 24	81 5	9,391 1,483	321 55	10,666 1,647	71	10,624 1,738	4,477 625	6,147 1,112
20 30	196 20	1,406 7	1,262 32	447 16	20 2	1,085 57	614 362	5,159 529	8,810 1,671	943 451	114 19	9,391 1,483	433 111	10,791 777	5 452	24,855 4,712	8,434 1,420	16,421 3,298
50	216	1,413	1,294	463	22	1,142	976	5,688	10,483	1,394	133	10,874	544	23,428	457	29,573	9,854	19,719

in 6) who are:

6,760.

n, but

ernment

(B) performing some regular teaching activity  
 but who do not receive their major support  
 from a graduate teaching assistantship 1,045.

(C) receiving support from more  
 than one source, exclusive of  
 self, loans, and family 1,201.

8. Number of "special" students enrolled for  
 graduate course work (full- or part-time) in  
 this department who are not enrolled for  
 an advanced degree 1,664.

Students.

N  
 Beyond 1st  
 618

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL FACULTY  
 Total 9,955 Nonteaching 379 Graduate 8,352

PART TIME  
 Graduate 1,346

Totals

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET**

*(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)*

1. Name and address of institution: 2,073 Doctorate-granting Institutions Applying in the 1972 GTP.

2. Department (or unit) covered by this data sheet:

3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_

4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒

5. Number of degrees granted 7/1/70 through 6/30/71: BS 85,818 MS 21,123 MAT 1,340 Ph.D. 11,342  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT, etc. Ph.D., D.Sc., etc.

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)

**U.S. GOVERNMENT (EXCLUDING LOANS)**

**OTHER U.S. (NON U.S. GOV)**

			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOV)			
			AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family
						NDEA	PHS (NIH)	OTHER HEW								
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)
Fellowships and Traineeships	United States	1	166	27	225	3,113	5,148	593	245	2,883	1,344	13,744	2,702	865	710	
	Foreign	2		10	16	17	78	14	15		426	576	599	436	90	
Graduate Research Assistantships	United States	3	934	656	1,245	24	1,607	254	547	2,947	1,433	9,647	5,651	516	572	
	Foreign	4	315	203	570	5	497	33	187	1,014	576	3,400	1,808	163	234	
Graduate Teaching Assistantships	United States	5					38	21		127	89	275	22,744	63	9	
	Foreign	6					10	5		15	30	60	4,783	9	7	
Other Than Above	United States	7	12	54	794	15	79	14	35	131	677	1,811	1,877	137	756	18,832
	Foreign	8	2	8	16		8	3	2	15	162	216	313	77	80	4,838
Total Total	United States	9	1,112	737	2,264	3,152	6,872	882	827	6,088	3,543	25,477	32,974	1,581	2,047	18,832
	Foreign	10	317	221	632	22	593	55	204	1,044	1,194	4,252	7,503	685	411	4,838
TOTALS		11	1,429	958	2,866	3,174	7,465	937	1,031	7,132	4,737	29,729	40,477	2,266	2,458	23,670

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 25,088. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 5,268.

(C) receiving support from more than one source, exclusive of self, loans, and family 5,507

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

1st year	Beyond 1st	TOTAL
7,642	14,341	Part time
		21,983

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
41,543	2,082	34,824	6,537

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
5,201	531	3,902

SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
(BE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.

Sheet:

Fill in this form: Name \_\_\_\_\_ Title \_\_\_\_\_  
 Degree (CHECK ONE ONLY) Masters ☐ Ph.D. ☒  
 Date: 6/30/71: BS 85,818 MS 21,123 MAT 1,340 Ph.D. 11,342  
 also BA, etc. also MA, etc. (Ex. MAT, etc.) AT, etc. Ph.D., D.Sc., etc.

Table D-8

SUMMARY OF RESPONSES FOR FALL 1971  
PUBLIC INSTITUTIONS

U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
AEC	USDA	DOD	HEW			NASA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U.S. Sub-totals		Total	First year	Beyond first
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
166	27	225	3,113	5,148	593	245	2,883	1,344	13,744	2,702	865	710		150	4,427	22	18,193	5,003	13,190
	10	16	17	78	14	15		426	576	599	436	90		77	1,202	77	2,549	830	1,719
934	656	1,245	24	1,607	254	547	2,947	1,433	9,647	5,651	516	572		207	6,946		16,593	4,040	12,553
315	203	570	5	497	33	187	1,014	576	3,400	1,808	163	234		36	2,241	37	5,678	984	4,694
				38	21		127	89	275	22,744	63	9		92	22,903		23,183	7,248	15,935
				10	5		15	30	60	4,783	9	7		14	4,813		4,873	1,176	3,697
12	54	794	15	79	14	35	131	677	1,811	1,877	137	756	18,832	964	22,566		24,377	10,026	14,351
2	8	16		8	3	2	15	162	216	313	77	80	4,838	261	5,569	462	6,247	2,779	3,468
1,112	737	2,264	3,152	6,872	882	827	6,088	3,543	25,477	32,974	1,581	2,047	18,832	1,413	56,847	22	82,346	26,317	56,029
317	221	602	22	593	55	204	1,044	1,194	4,252	7,503	685	411	4,838	388	13,825	1,270	19,347	5,769	13,578
1,429	958	2,866	3,174	7,465	937	1,031	7,132	4,737	29,729	40,477	2,266	2,458	23,670	1,801	70,672	1,292	101,693	32,086	69,607

Above table (item 6) who are:

at this institution 25,088.

receiving no tuition, but

from the U. S. Government

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 5,268.

(C) receiving support from more than one source, exclusive of self, loans, and family 5,507.

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 4,636.

Advanced degrees  
of the "special" students.

Year Beyond 1st  
1942 14,341  
TOTAL  
Part time  
21,983

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL FACULTY  
Total Nonteaching Graduate  
41,543 2,082 34,824

PART TIME  
Graduate  
6,537

Graduates:

Recent Doctorals  
3,902

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET**

*(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)*

1. Name and address of institution: 917 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet:
3. Person in Department (or unit) preparing this form: Name \_\_\_\_\_ Title \_\_\_\_\_
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 24,187 MS 11,428 MAT 408 Ph.D. 6,271  
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

**SUMMARY**

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6--instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)					
		AEC	USDA	DDD	HEW			NASA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	
					NDEA	PHS (NIH)	OTHER HEW										
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(o)
Fellowships and Traineeships	United States	1	80	1	7	1,607	3,219	377	189	2,519	517	8,583	2,740	903	486		110
	Foreign	2		1	4	8	66	6	21		173	279	1,089	389	89		72
Graduate Research Assistantships	United States	3	352	19	861	7	535	47	288	1,143	443	3,695	642	233	134		16
	Foreign	4	114	3	604		208	21	152	705	279	2,160	318	93	89		7
Graduate Teaching Assistantships	United States	5					20	3		37	19	79	5,184	37			27
	Foreign	6					4			10	3	17	1,731	7			2
Other Than Above	United States	7	5		209		18	9	13	47	218	519	326	46	406	6,533	355
	Foreign	8		1	11		3			5	20	40	108	24	47	1,673	150
Total	United States	9	437	20	1,144	1,614	3,792	433	490	3,746	1,197	12,876	8,892	1,219	1,026	6,533	508
	Foreign	10	188	5	619	8	281	27	173	720	475	2,496	3,246	513	225	1,673	231
TOTALS		11	625	25	1,763	1,622	4,073	463	663	4,466	1,672	15,372	12,138	1,732	1,251	8,206	739

7. The number of students included in the above table (item 6) who are:
- (A) supported with full tuition from this institution 12,462. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
- (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 3,708
- (C) receiving support from more than one source, exclusive of self, loans, and family 3,275.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

1st year	Beyond 1st	TOTAL
6,995	10,854	Part time 17,849

10. Numbers of faculty members:

FULL TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
15,820	667	14,002	2,689

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
4,049	355	2,646

CE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972  
DEPARTMENTAL DATA SHEET  
ING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

granting Institutions Applying in the 1972 GTP.

Form: Name \_\_\_\_\_ Title \_\_\_\_\_  
CHECK ONE ONLY) Masters ☐ Ph.D. ☒  
1971: BS 24,187 MS 11,428 MAT 408 Ph.D. 6,271  
also BA, etc. also MA, etc. (Ex. MAT, etc.) AAT, etc. Ph.D. D.Sc., etc.

Table D-9  
SUMMARY OF RESPONSES FOR FALL 1971  
PRIVATE  
INSTITUTIONS

U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
USDA	DOD	HEW			NASA	NSA	Other U. S. Government	U. S. Government Sub- total	This Institution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals	Total		First year	Beyond first	
		NOEA	PHS (NIH)	OTHER HEW															
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(i-n)	(o)	(p)	(q)	(r)	
10	1	74	1,607	3,219	377	189	2,519	517	8,583	2,740	903	486		110	4,239	20	12,842	3,705	9,137
	1	4	8	66	6	21		173	279	1,089	389	89		72	1,639	601	2,519	830	1,689
52	19	861	7	535	47	288	1,143	443	3,695	642	233	134		16	1,025		4,720	909	3,811
88	3	604		208	21	152	705	279	2,160	318	93	89		7	507	10	2,677	376	2,301
				20	3		37	19	79	5,184	37			27	5,248		5,327	1,648	3,679
				4			10	3	17	1,731	7			2	1,740		1,757	421	1,336
5		209		18	9	13	47	218	519	326	46	406	6,533	355	7,666		8,185	3,594	4,591
	1	11		3			5	20	40	108	24	47	1,673	150	2,002	407	2,449	1,147	1,302
87	20	1,144	1,614	3,792	436	490	3,740	1,197	12,876	8,892	1,219	1,026	6,533	508	18,178	20	31,074	9,856	21,218
88	5	619	8	281	27	173	720	475	2,496	3,245	513	225	1,673	231	5,888	1,018	9,402	2,774	6,628
25	25	1,763	1,622	4,073	463	663	4,466	1,672	15,372	12,138	1,732	1,251	8,206	739	24,066	1,038	40,476	12,630	27,846

able (item 6) who are:

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 3,708

(C) receiving support from more than one source, exclusive of self, loans, and family 3,275.

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 4,083.

d degrees cial" students.		10 Numbers of faculty members:				
		FULL-TIME DEPARTMENTAL FACULTY			PART TIME	
	TOTAL	Total	Nonteaching	Graduate	Graduate	
Beyond 1st	Part time	15,820	667	14,002	2,689	
10,854	17,849					
ent Doctorals						
2,646						



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## SCIENCE, TECHNOLOGY, AND INNOVATION IN THE UNITED STATES

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